

South Carolina Department of Health and Environmental Control
Office of Ocean and Coastal Resource Management
927 Shine Avenue
Myrtle Beach, South Carolina 29577

and

Charleston District, Army Corps of Engineers
69-A Hagood Avenue
Charleston, South Carolina 29403

August 29, 2013
Joint Permit Application Public Notice

Millbrook Plantation Ltd Partnership, 2013-00837-2G

The Department has received an application for a permit for the alteration of a critical area. The application was submitted pursuant to the Coastal Zone Management Act (Act 123) of 1977 South Carolina General Assembly. The application in brief, is described as follows:

LOCATION: On and adjacent to Minim Creek & Atlantic Intracoastal Waterway at 241 Annadale Rd., Georgetown, Georgetown County, South Carolina.
TMS: 01-1011-008-00-00.

WORK: The work as proposed consists of performing excavation in the wetlands for construction of borrow canals and placing the excavated fill material in wetlands for construction of two embankments (cross-dikes); the installation of four spillway boxes with 25' bulkheads and 8' wingwalls for stabilization and the installation of one rice trunk for increased water circulation in an existing impoundment. The applicant also seeks to install a 200' vinyl bulkhead with riprap at the end of the structure for erosion control of the existing embankment on Minim Creek. The proposed total impacts to waters of the US are approximately 12.75 acres and are all within the existing managed tidal impoundments with the exception of the proposed bulkhead on Minim Creek. The work as described is for improved water circulation, improved and diversified habitats for wildlife species, improved management ability and to minimize impacts from the failure of the perimeter embankment.

This public notice is being distributed to all known interested persons and agencies to assist in developing facts on which a decision by the Department can be based. Comments concerning the proposed work must be submitted in writing, setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

Comments regarding this application must be received by the Department on or before **September 28, 2013**. For more information, please contact **Chris Stout** at **843-238-4528** or via email at **stoutcm@dhec.sc.gov**.

NOTE: Plans depicting the proposed work are available and will be provided upon receipt of a written request or may be viewed on the Department website at **www.scdhec.gov/environment/ocrm/public_notice.htm**.

JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS
69A Hagood Avenue
Charleston, South Carolina 29403-5107
and the
S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT
1362 McMillan Avenue, Suite 400
Charleston, South Carolina 29405

REGULATORY DIVISION

Refer to: P/N # 2013-00837-2G

8 AUGUST 2013

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), and the South Carolina Coastal Zone Management Act (48-39-10 et seq.) an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

MILLBROOK LIMITED PARTNERSHIP
C/O JAMES RADER
DUCKS UNLIMITED, INC
3294 ASHLEY PHOSPHAT E ROAD, SUITE 2A
NORTH CHARLESTON, SC 29418

for a permit to perform excavation and place fill material in wetlands; install water control structures with wing walls and bulkheads; and install a sheet pile bulkhead with rip rap in an existing managed tidal impoundment adjacent to

MINIM CREEK AND THE ATLANTIC INTRACOASTAL WATERWAY (AIWW)

at a location, within the existing impoundments of Annandale Plantation, located off of North Santee Road, off of US Highway 17 North, near Georgetown, Georgetown County, South Carolina. (Latitude 33.200278° - Longitude -79.283009°)

In order to give all interested parties an opportunity to express their views

NOTICE

is hereby given that written statements regarding the proposed work will be received by the Corps until

15 Days from the Date of this Notice,

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists of performing excavation in wetlands for construction of borrow canals and placing the excavated fill material in wetlands for construction of two embankments (cross-dikes); installation of four spillway boxes with 25' bulkheads and 8' wing walls for stabilization; and installation of one rice trunk for increased water circulation and

REGULATORY DIVISION

Refer to: P/N # ~~2013~~-2013-00837-2G

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management capabilities in the existing impoundment. In addition, the applicant proposes to install 200 linear feet of vinyl sheet pile bulkhead with rip rap stabilization at the end of the structure for erosion control of the existing embankment on Minim Creek. The proposed total impacts to waters of the U. S. are approximately 12.75 acres, all within the existing managed tidal impoundments except for the sheet pile bulkhead on Minim Creek as shown on the attached plans. To minimize potential impacts the proposed work will be conducted in the dry and drawdown in the late winter and early spring. The applicant will perform the proposed work with a long reach excavator on tracks using wooden mats for stability. In addition, all fill material will be obtained from within the managed tidal impoundment fields and the embankment construction and canal excavation will be conducted simultaneously. Due to the nature of the proposed work which is management of the existing impoundments; since the project is being performed with grant money from the North America Wetland Conservation Act (NAWCA); the project is consistent with the habitat goals for The North American Waterfowl Management Plan, South Atlantic Migratory Bird Initiative and the Atlantic Coast Joint Venture; and since Annandale Plantation is protected under a conservation easement with Wetlands America Trust, the applicant has not proposed compensatory mitigation for the proposed work. The purpose of the proposed work as stated by the applicant is for enhancement of water circulation capability; improvement and diversification of habitats within the managed tidal impoundment for wildlife species; improved management capability; and minimization of negative impacts from failure of the perimeter embankment.

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

**U.S. Army Corps of Engineers
ATTN: REGULATORY DIVISION
69A Hagood Avenue
Charleston, South Carolina 29403-5107**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The work shown on this application must also be certified as consistent with applicable provisions the Coastal Zone Management Program (15 CFR 930). The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact (12.75) acres of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

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Refer to: P/N #S-2013-00837-2G

8 AUGUST 2013

The District Engineer has consulted the most recently available information and has determined that the project will have no effect on any federally endangered, threatened, or proposed species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended).

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein. This worksite is included as a registered property in the National Register. The nature of the proposed work is for management and maintenance of the existing impoundments which has been ongoing in these existing impoundments since they were created. In addition, if these existing impoundments are not maintained, they will no longer exist. Therefore, the Charleston District has determined that the proposed work will have "no potential to cause effect" on the historic property. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To

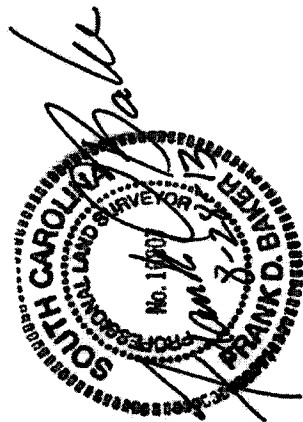
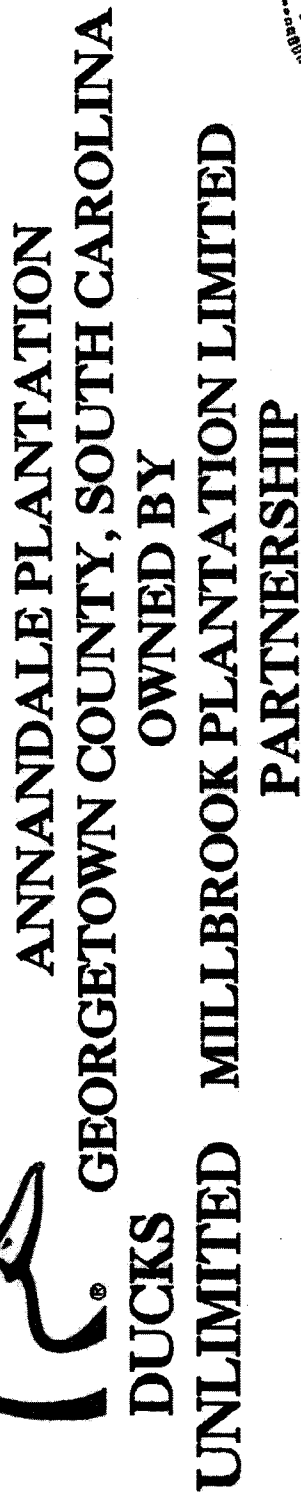
REGULATORY DIVISION

Refer to: P/N # [REDACTED]-2013-00837-2G

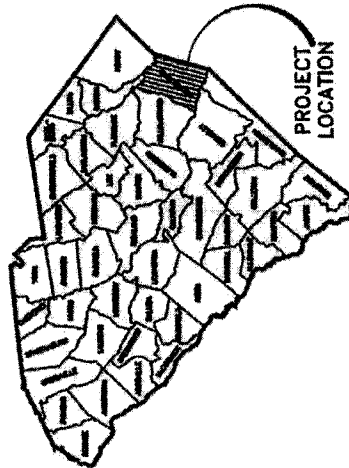
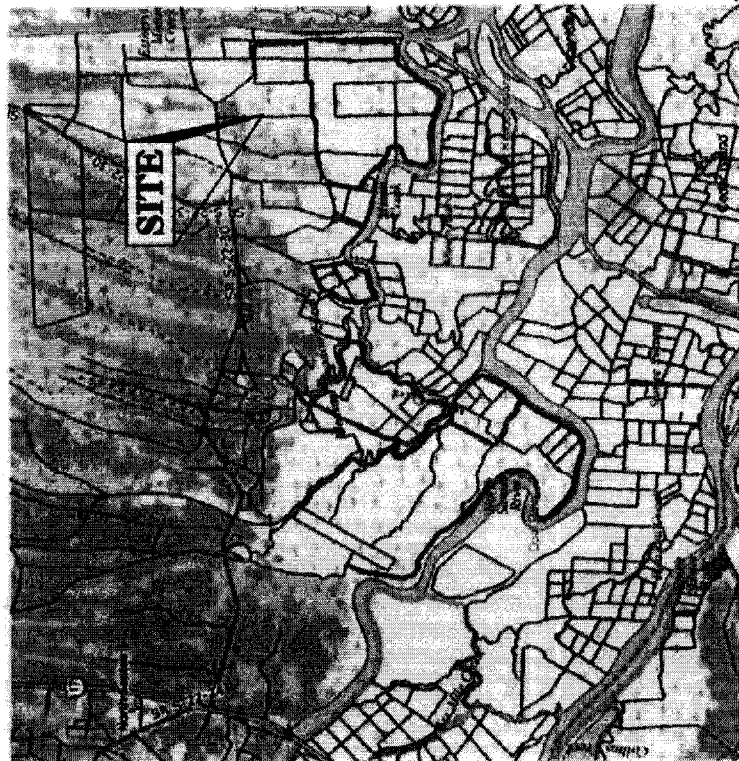
8 AUGUST 2013

make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

If there are any questions concerning this public notice, please contact Mary Hope Green at 843-329-8044 or toll free at 1-866-329-8187.



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SCDHEC-OCRM CRITICAL LINE
PLAT APPROVED 6-17-13 BY
CHRISTOPHER STOUT.

CAUTION

The engineer preparing these plans will not be responsible for, nor liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

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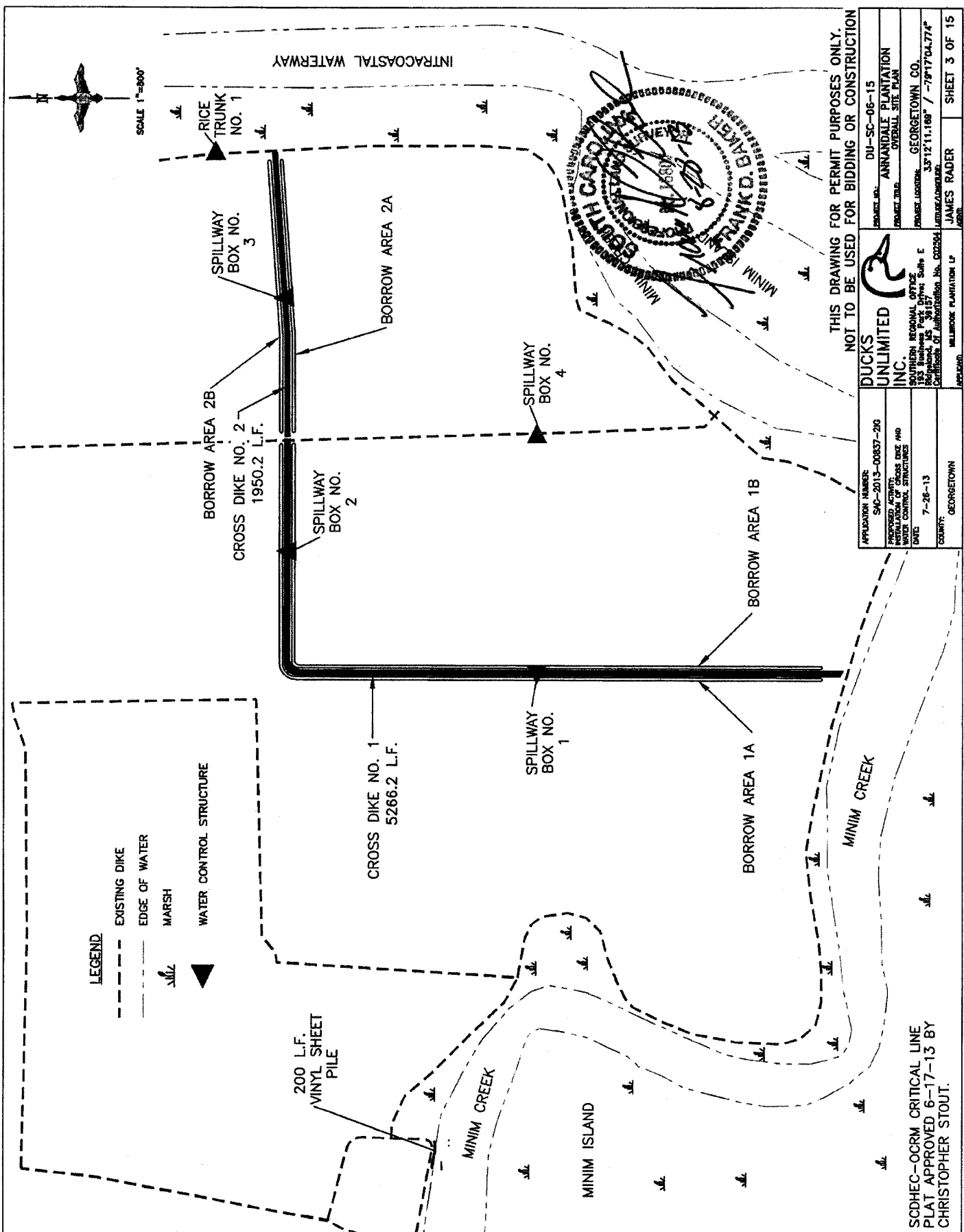
APPLICATION NUMBER SAC-2013-00857-26	DUCKS UNLIMITED INC.	PROJECT NO. DU-SC-06-15	PROJECT NAME ANNANDALE PLANTATION
PROPOSED ACTION REPARATION OF CRACKS AND WATER CHANNEL STRUCTURES		CLIENT NO. 00000 SITE PLAN	
SHEET 7-26-13	SOUTHERN REGIONAL OFFICE 185 Boulevard Parkway, Suite 2 Raleigh, NC 27617 Contractor of Administration No. 000364	PROJECT ADDRESS GEORGETOWN, CO.	PROJECT ADDRESS 3372111.08° / -76°17'04.774°
COUNTY BEDFORDTOWN		JAMES RADER	SHEET 1 OF 15



CREEK
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DUCKS UNLIMITED INC. 1000 N. 10TH ST. SUITE 2 GEORGETOWN, NC 28526 PHONE: 758-1168 / 758-1168 FAX: 758-1168		PROJECT NO.: DU-SC-08-15 PROJECT NAME: ANNANDALE PLANTATION PROJECT LOCATION: GEORGETOWN, CO. PROJECT NUMBER: 331211.168 / -781104.774
PROJECT MANAGER: JAMES RADER PROJECT ENGINEER: JAMES RADER PROJECT SURVEYOR: JAMES RADER		SHEET 2 OF 15

APPLICATION NUMBER: SAC-2013-0087-26 PROJECT NAME: ANNANDALE PLANTATION PROJECT LOCATION: GEORGETOWN, NC PROJECT NUMBER: 331211.168 / -781104.774	COUNTY: GEORGETOWN
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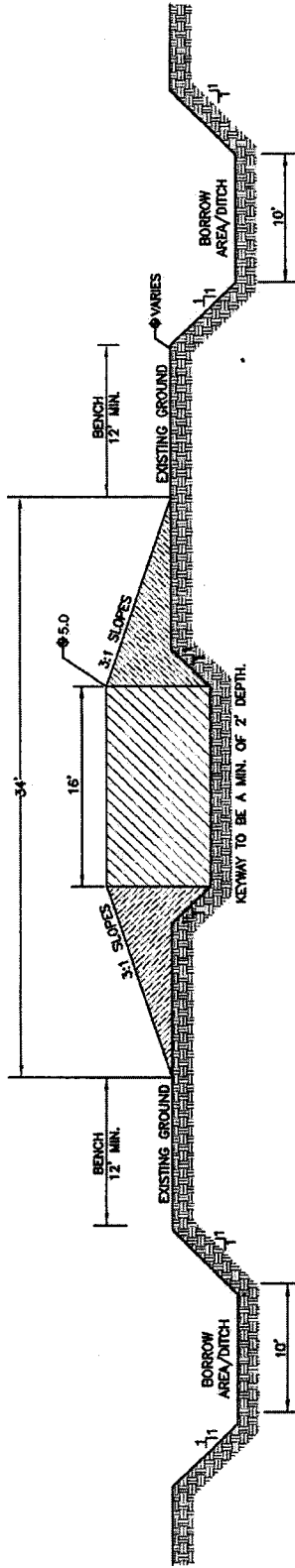


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APPLICATION NUMBER SAC-2013-00837-2IG		PROJECT NO. DI-SC-06-15	
PROPOSED ACTIVITY INSTALLATION OF CROSS DIKE AND WATER CONTROL STRUCTURES		PROJECT NAME ANNANDALE PLANTATION OVERALL SITE PLAN	
DATE 7-26-13		PROJECT LOCATION GEORGETOWN CO.	
COUNTY GEORGETOWN		PROJECT LOCATION 33°12'11.18" / -78°17'04.77"	
DUCKS UNLIMITED INC. SOUTHERN REGIONAL OFFICE 183 Business Park Drive Suite E Georgetown, SC 29147 (803) 781-1111		PROJECT MANAGER JAMES RADER	
SHEET 3 OF 15		SHEET 3 OF 15	

SCDHEC-OCRM CRITICAL LINE
PLAT APPROVED 6-17-13 BY
CHRISTOPHER STOUT.

SIDE SLOPES MAY BE CONSTRUCTED
WITH EITHER ON OR OFFSITE
SOILS

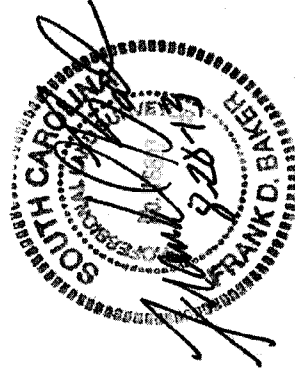


TYPICAL SECTION OF CROSS DIKE 1 AND 2

NOT TO SCALE

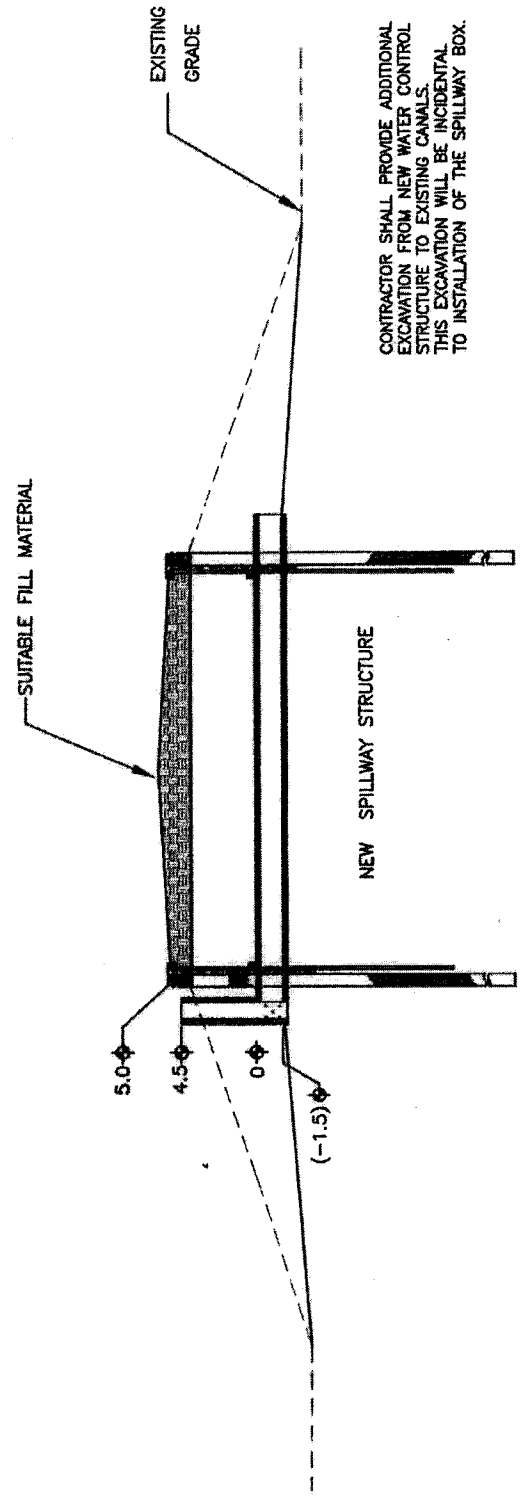
CROSS DIKE NO. 1 IMPACTS
CROSSDIKE NO. 1 4.61 AC. / 22,430 CYD BORROW AREA 1A
2.37 AC./14,488 CYD
BORROW AREA 1B 2.31 AC. / 14,005 CYD

CROSS DIKE NO. 2 IMPACTS
CROSS DIKE 2 1.71 AC. / 8,306 CYD
BORROW AREA 2A 0.86 AC. / 5198 CYD
BORROW AREA 2B 0.86 AC. / 5,191 CYD



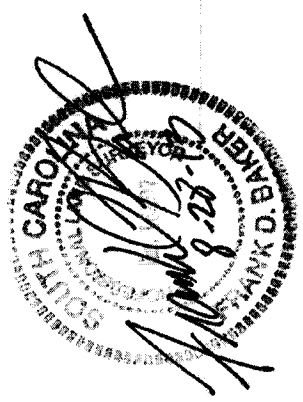
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APPLICATION NUMBER	SAC-2013-00837-2IG	PROJECT NO.	DU-SC-06-15
PROPOSED ACTIVITY	INSTALLATION OF CROSS DIKE AND WATER CONTROL STRUCTURES	PROJECT TITLE	ANNANDALE PLANTATION CROSS DIKE SECTION AND IMPACTS
DATE	7-25-13	PROJECT LOCATION	GEORGETOWN CO.
COUNTY	GEORGETOWN	PROJECT ADDRESS	33°12'11.160" / -78°17'04.774"
		APPLICANT	JAMES RADER
		APPROVED	APPROVED
			SHEET 4 OF 15



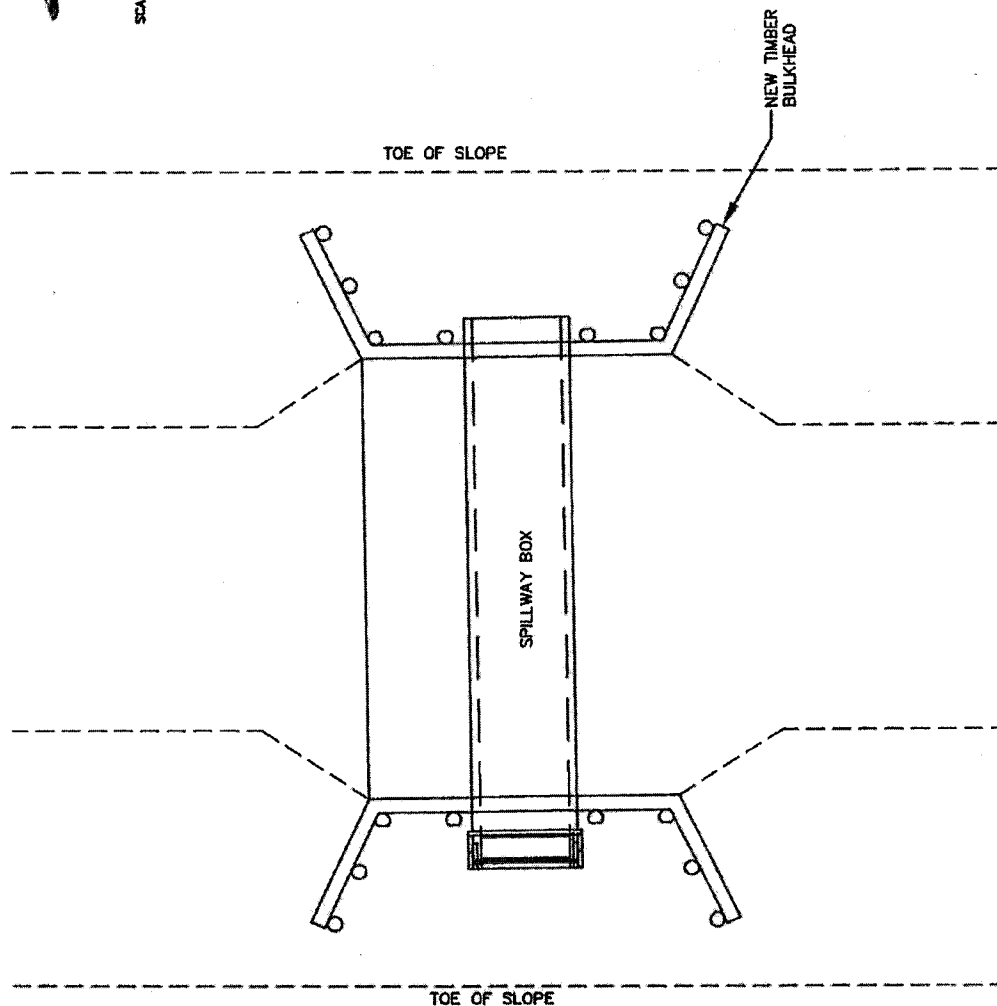
CONTRACTOR SHALL PROVIDE ADDITIONAL EXCAVATION FROM NEW WATER CONTROL STRUCTURE TO EXISTING CANALS. THIS EXCAVATION WILL BE INCIDENTAL TO INSTALLATION OF THE SPILLWAY BOX.

TYPICAL SPILLWAY BOX NO. 1-3 SECTION
INSTALLED IN CROSS-DIKE 1 AND 2
SCALE 1"=10'



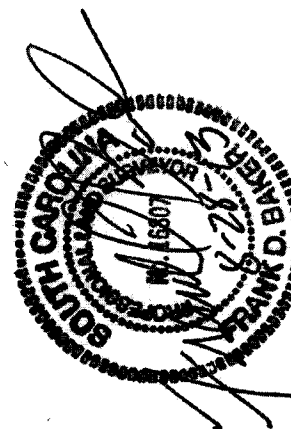
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APPLICATION NUMBER: SAC-2013-00837-26	PROJECT NAME: DUCKS UNLIMITED INC.	PROJECT NO.: DU-SC-06-15
PROJECT LOCATION: WATER CONTROL STRUCTURE	PROJECT LOCATION: ANNANDALE PLANTATION	PROJECT LOCATION: ANNANDALE PLANTATION
DATE: 7-26-13	DATE: 7-26-13	DATE: 7-26-13
COUNTY: GEORGETOWN	COUNTY: GEORGETOWN	COUNTY: GEORGETOWN
DESIGNED BY: JAMES RADER	DESIGNED BY: JAMES RADER	DESIGNED BY: JAMES RADER
CHECKED BY: JAMES RADER	CHECKED BY: JAMES RADER	CHECKED BY: JAMES RADER
APPROVED BY: JAMES RADER	APPROVED BY: JAMES RADER	APPROVED BY: JAMES RADER
SHEET 5 OF 15	SHEET 5 OF 15	SHEET 5 OF 15



TYPICAL SPILLWAY BOX NO. 1-3 PLAN VIEW
INSTALLED IN CROSS-DIKE 1 AND 2
SCALE 1"=10'

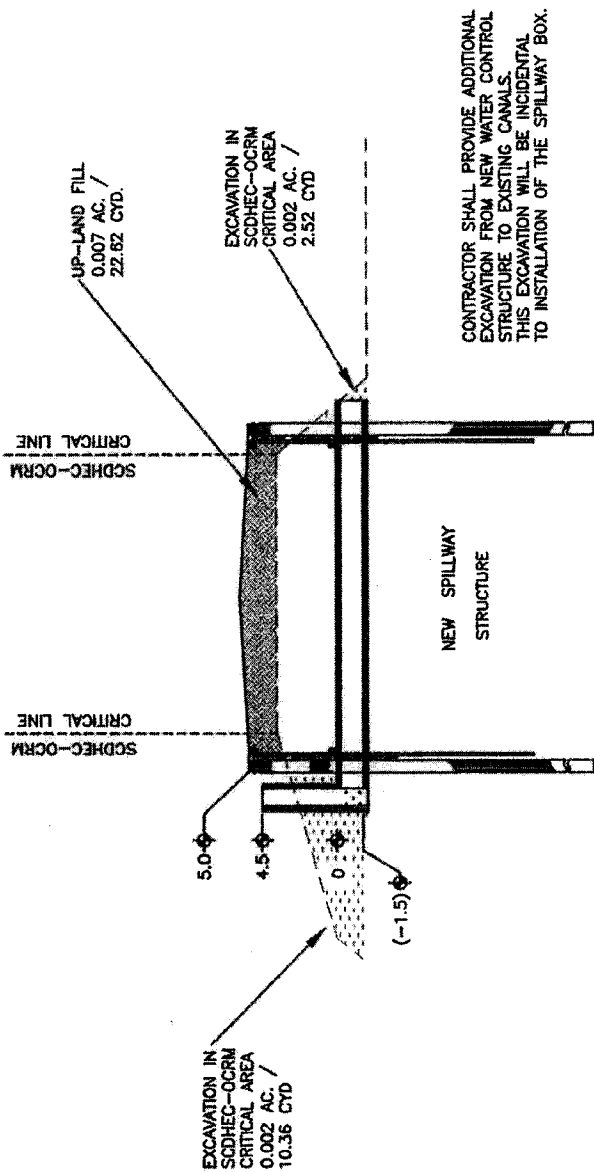
NOTE: ALL MATERIAL GENERATED DURING EXCAVATION
IN CRITICAL AREA WILL BE DISPOSED OF ON
UPLANDS



SCDHEC-OCRM CRITICAL LINE PLAT APPROVED
6-17-13 BY
CHRISTOPHER STOUT.

THIS DRAWING FOR PERMIT PURPOSES ONLY.
NOT TO BE USED FOR BIDDING OR CONSTRUCTION

APPLICATION NUMBER: SAC-2013-00837-26	DUCKS UNLIMITED INC.	PROJECT NO.: DU-SC-06-15
PROPOSED ACTIVITY: WATER CONTROL STRUCTURES	DESIGNED BY: ANNANDALE PLANTATION	PROJECT TITLE: PLAN VIEW SPILLWAY BOX 1-3
DATE: 7-26-13	DESIGNED BY: ANNANDALE PLANTATION	PROJECT LOCATION: GEORGETOWN CO.
COUNTY: GEORGETOWN	DESIGNED BY: ANNANDALE PLANTATION	PROJECT LOCATION: 33°12'11.88" / -78°17'04.774"
	DESIGNED BY: ANNANDALE PLANTATION	DESIGNED BY: JAMES RADER
	DESIGNED BY: ANNANDALE PLANTATION	SHEET 6 OF 15



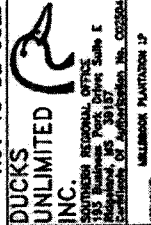
SPILLWAY BOX NO. 4 SECTION VIEW
SCALE 1"=10'

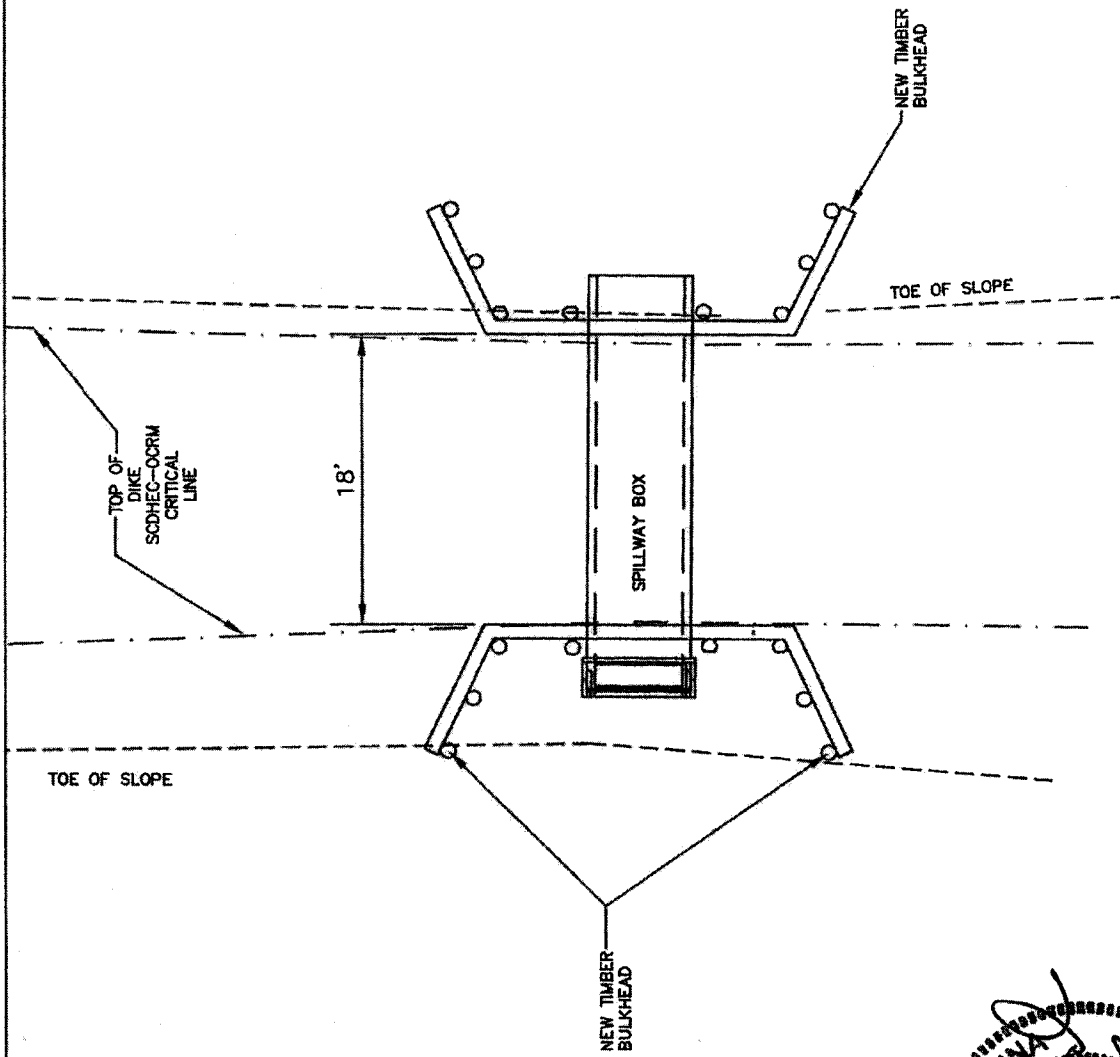


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6-17-13 BY
CHRISTOPHER STOUT.

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APPLICATION NUMBER: SAC-2013-00337-26G	SHEET NO.: DU-SC-06-15
PROJECT NAME: ANNANDALE PLANTATION	PROJECT ETC. SECTION VIEW SPILLWAY BOX #4
DATE: 7-26-13	PROJECT LOCATION: GEORGETOWN CO.
COUNTY: GEORGETOWN	PROJECT LOCATION: 33°12'11.189" / -78°17'04.774"
DRAWN BY: JAMES RADER	
SHEET 7 OF 15	





SPILLWAY BOX NO. 4 PLAN VIEW
SCALE 1"=10'

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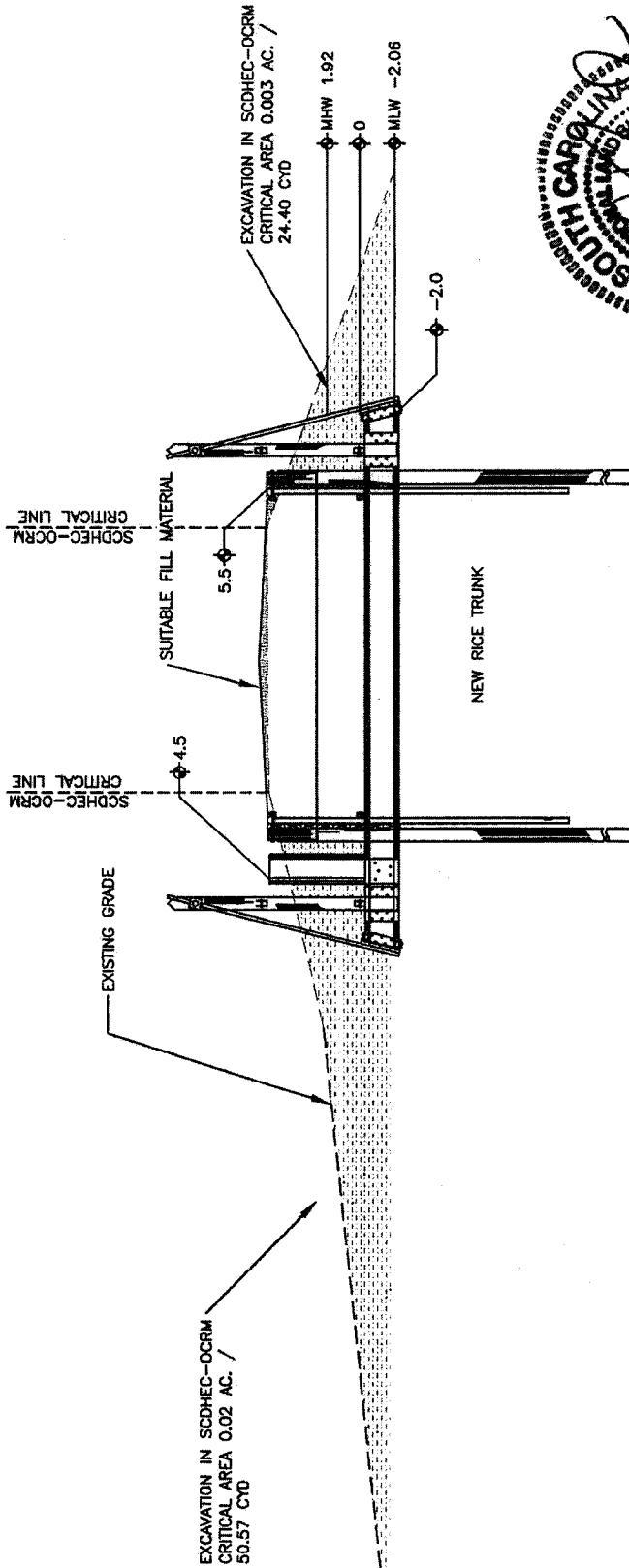
APPLICATION NUMBER: SAC-2013-00837-26	DUCKS UNLIMITED INC.	DRAWING NO.: DU-SC-06-15
PROPOSED ACTIVITY: INSTALLATION OF COARSE DUNE AND FINE DUNE COASTAL STRUCTURES	1300 SOUTHERN REGIONAL OFFICE 1300 Peachtree Park Drive, Suite E Atlanta, Georgia 30309 Professional Engineer No. 002504	PROJECT NO.: ANNANDALE PLANTATION FARM NEW SPILLWAY BOX #1
DATE: 7-28-13	COUNTY: GEORGETOWN	PROJECT LOCATION: GEORGETOWN CO. 33° 12' 11.18" N / -79° 17' 04.77" W
		DESIGNED BY: JAMES RADER
		DATE: 7/28/13
		SHEET 8 OF 15



SCDHEC-OORM CRITICAL LINE PLAT APPROVED
6-17-13 BY
CHRISTOPHER STOUT.

UP-LAND FILL
0.02 AC. /
5.60 CYD.

SCALE 1"=10'



CONTRACTOR SHALL PROVIDE ADDITIONAL
EXCAVATION FROM NEW WATER CONTROL
STRUCTURE TO EXISTING CANALS.
THIS EXCAVATION WILL BE INCIDENTAL
TO INSTALLATION OF THE SPILLWAY BOX.

RICE TRUNK NO. 1 SECTION

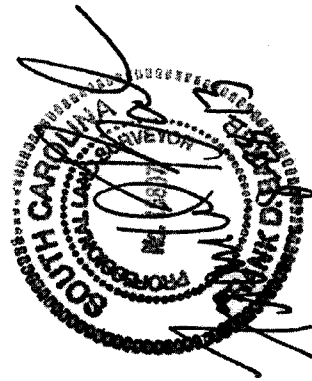
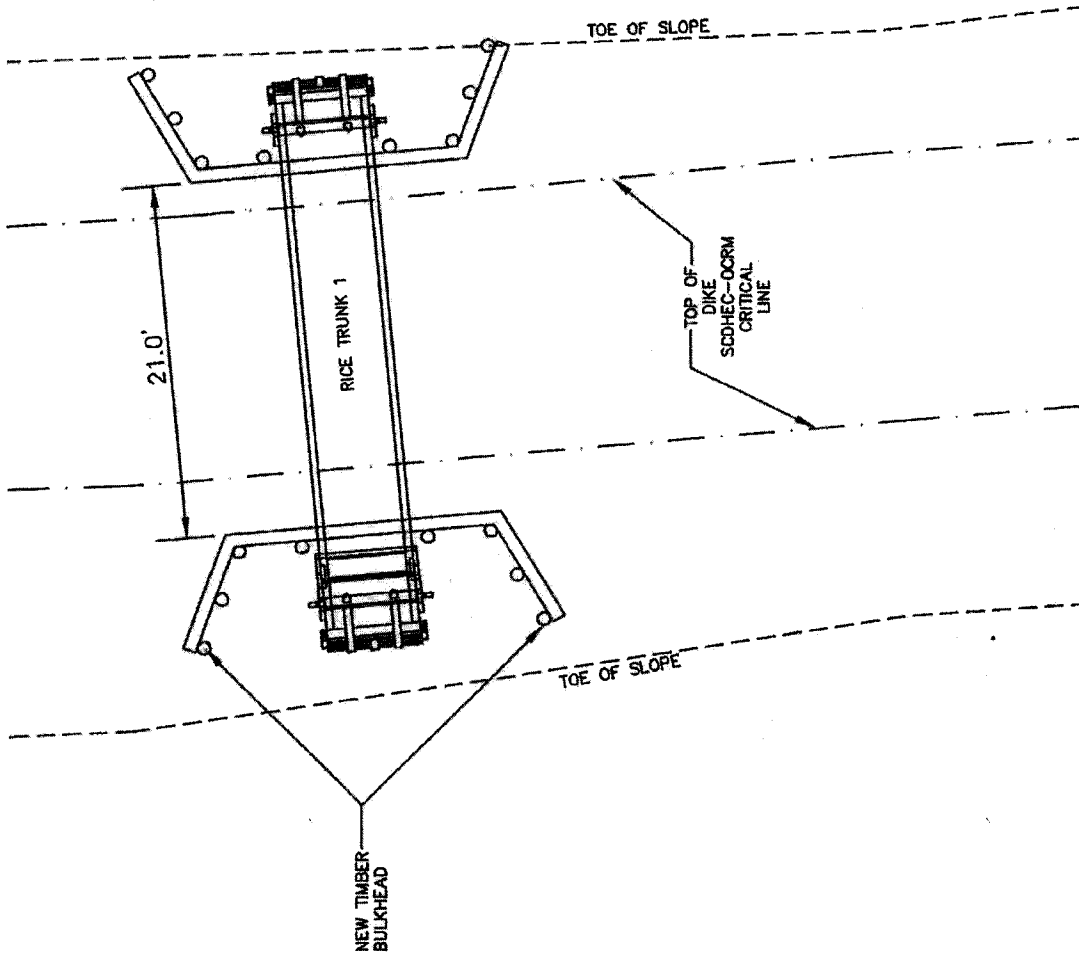
SCALE 1"=10'



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APPLICATION NUMBER SAC-2013-00837-26	DUCKS UNLIMITED INC.	PROJECT NO. DU-SC-08-15
PROPOSED ACTIVITY REGULATION OF CROSS RACE AND WATER CONTROL STRUCTURES	SOUTHERN REGIONAL OFFICE 183 Business Park Drive, Suite E Georgetown, SC 29204	PROJECT TITLE SECTION 171 RICE TRUNK #1
DATE 7-28-13	COUNTY GEORGETOWN	PROJECT LOCATION 33°12'11.68" / -78°17'04.77"
		LETTER/AMENDMENT JAMES RADER
		APPROVED JAMES RADER
		SHEET 9 OF 15

SCDHEC-OCRM CRITICAL LINE PLAT APPROVED
6-17-13 BY
CHRISTOPHER STOUT.

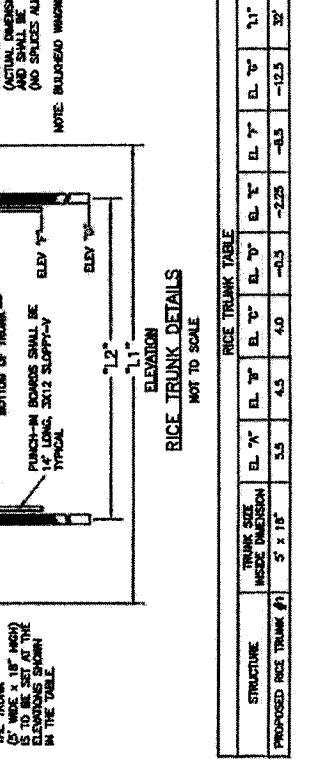
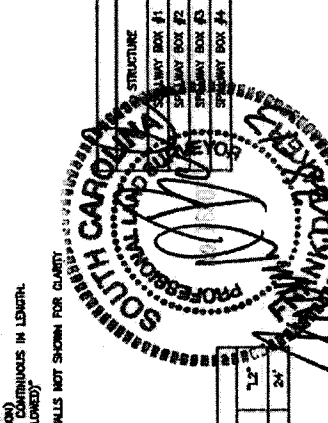
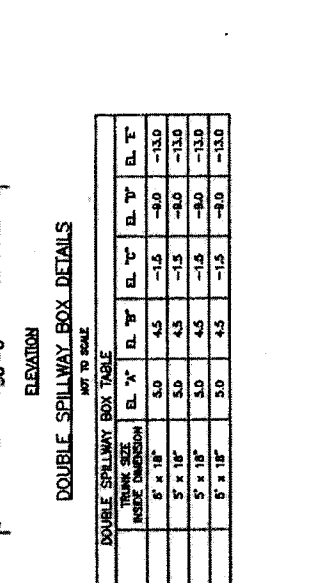
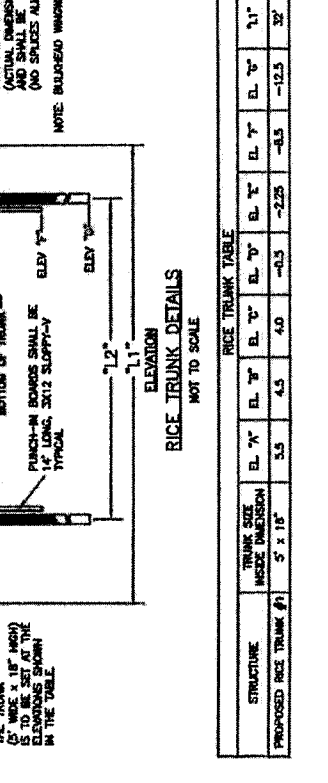
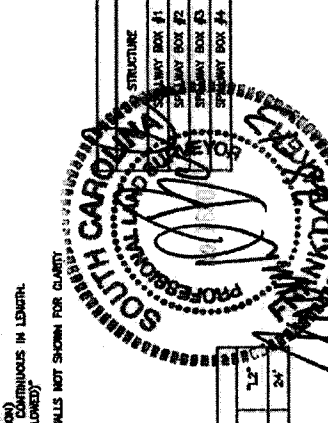
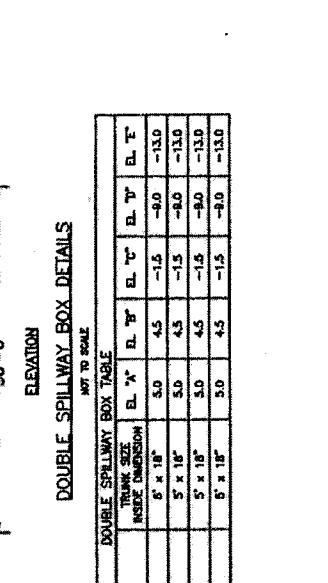
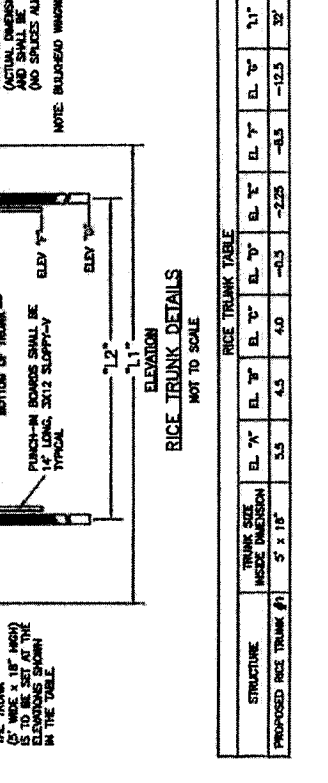
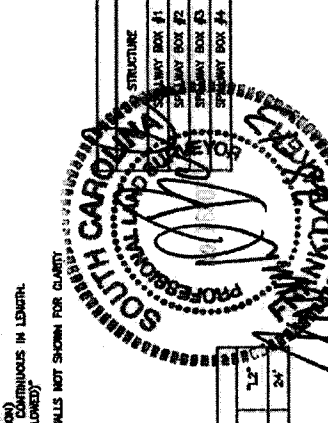
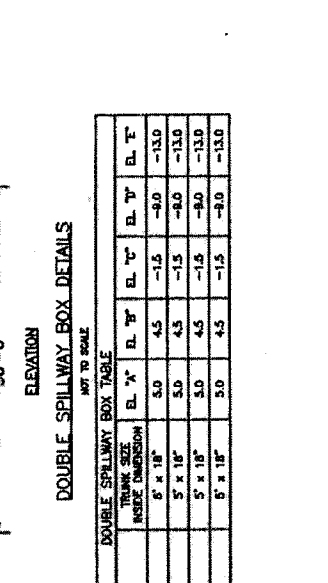
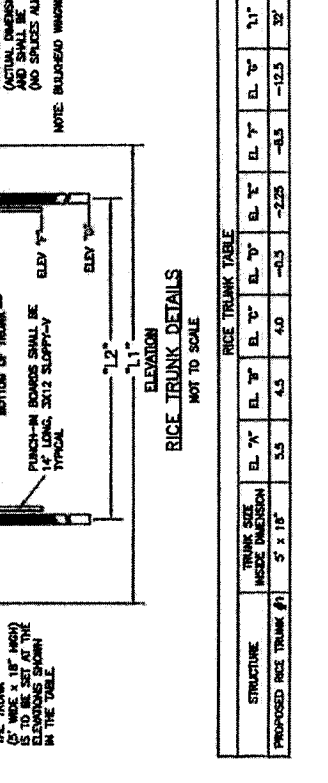
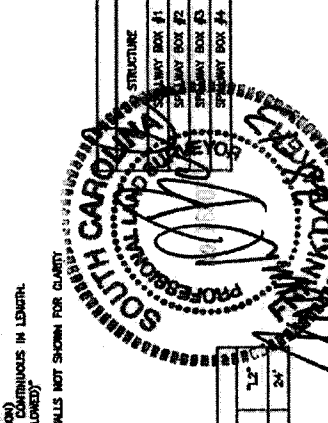
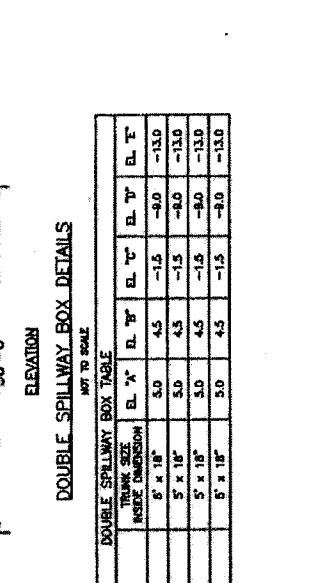
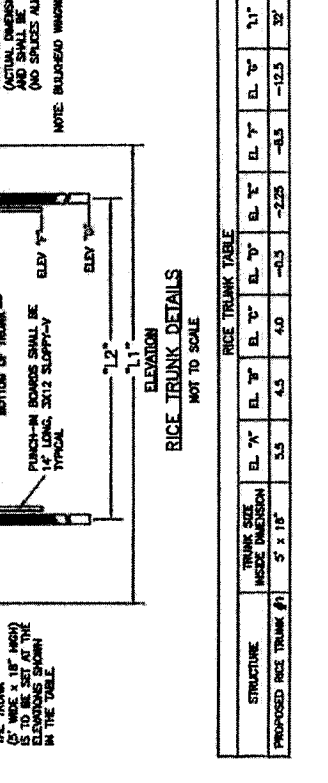
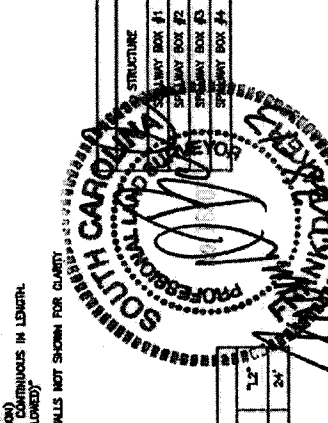
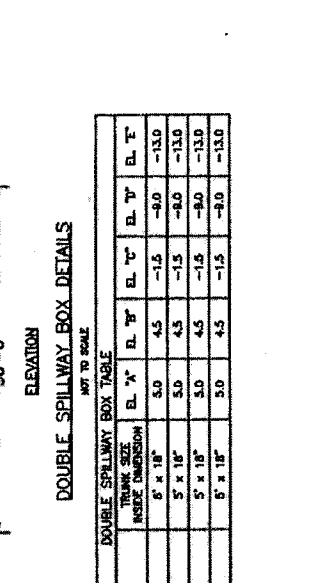
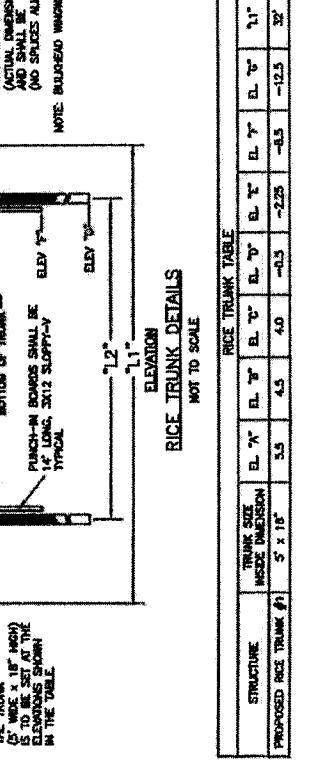
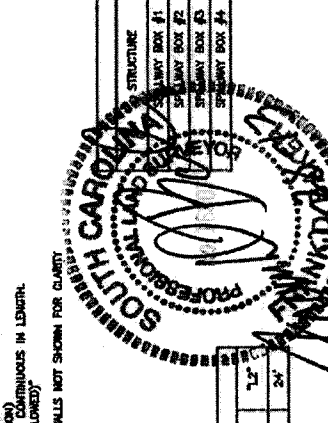
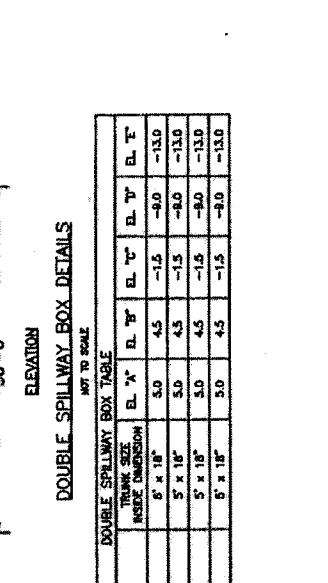
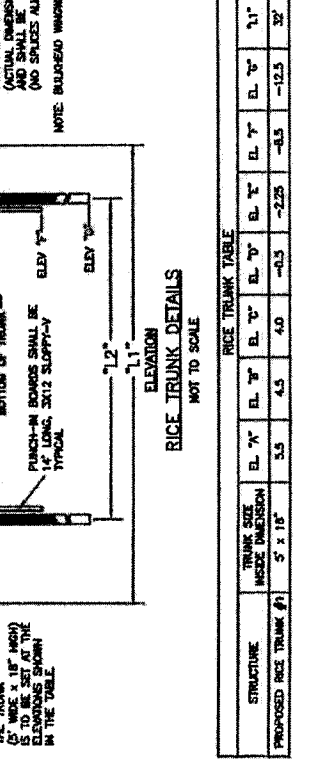
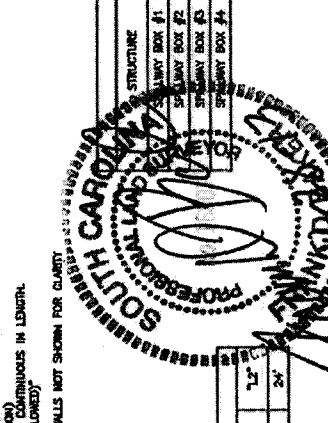
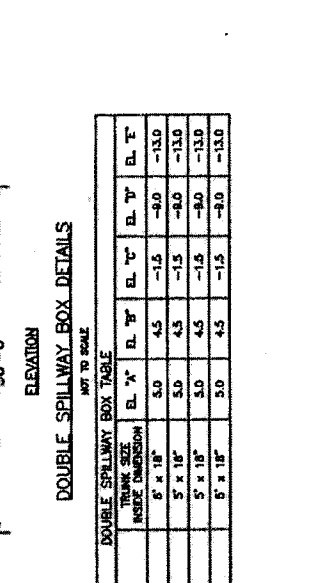
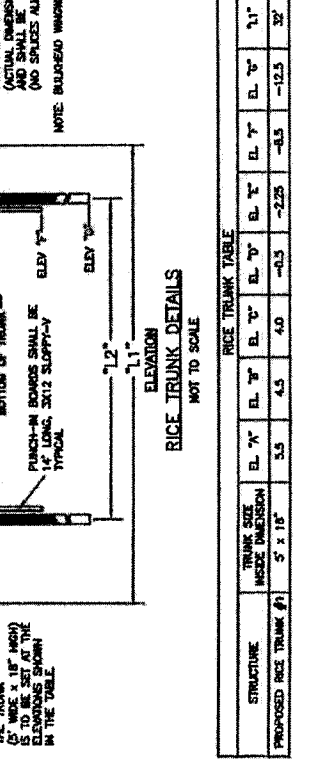
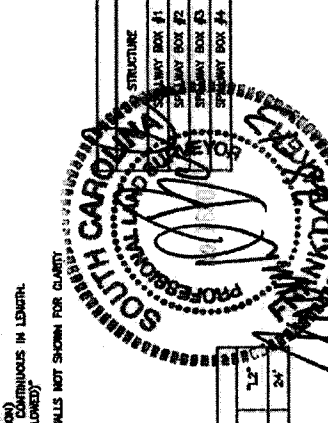
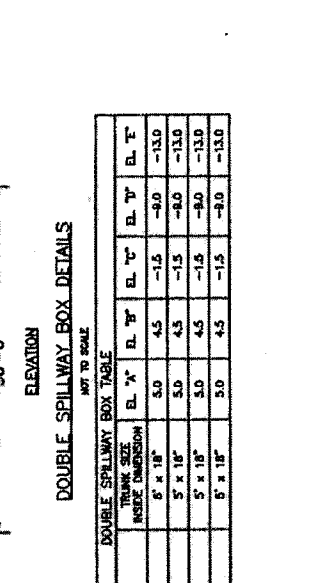
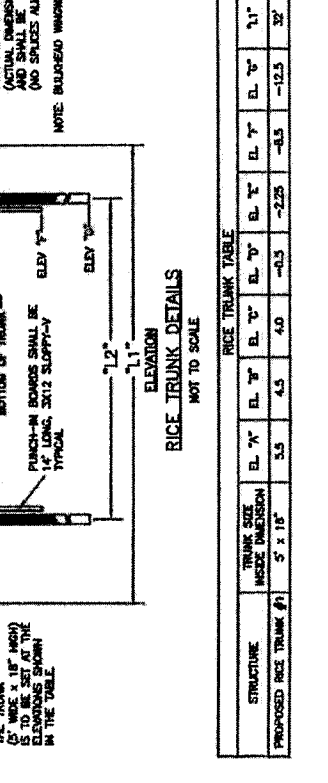
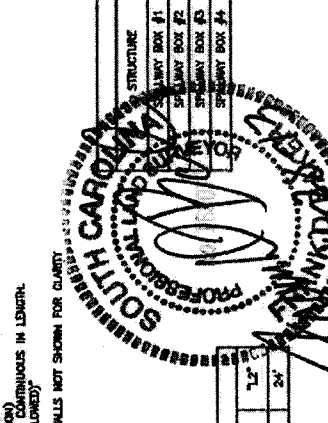
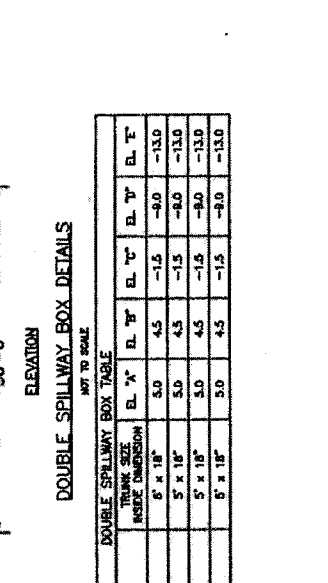
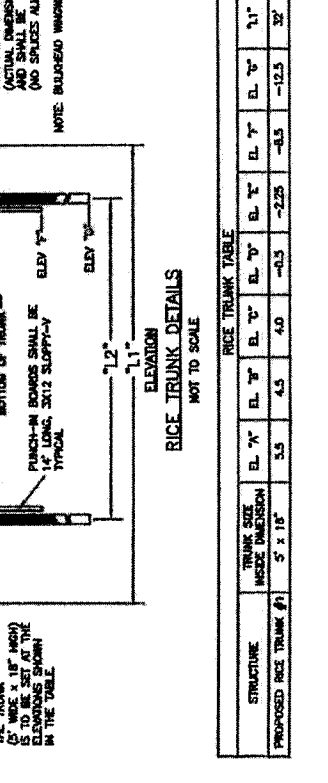
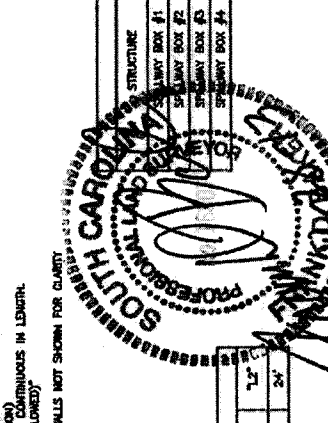
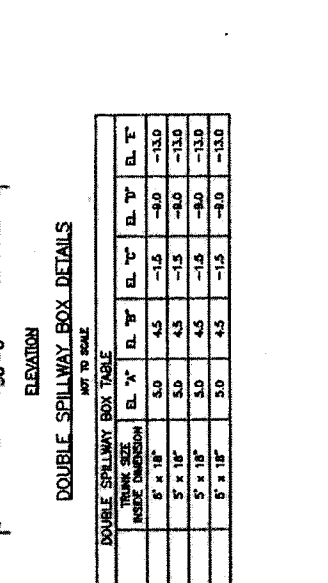
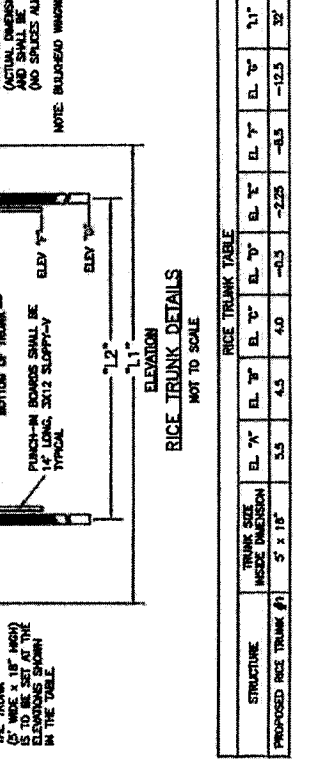
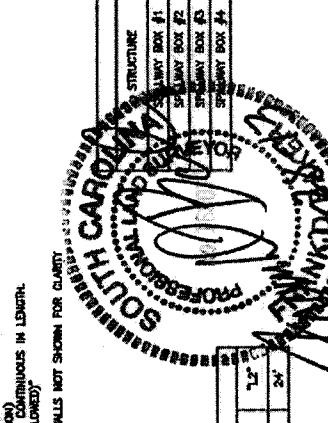
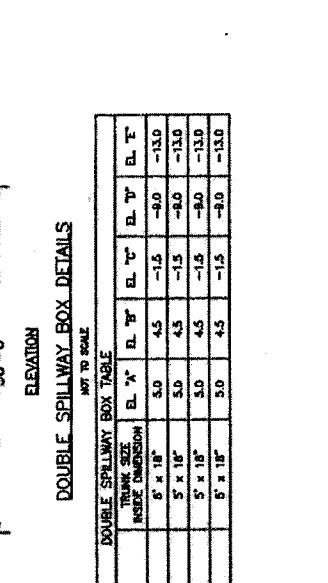
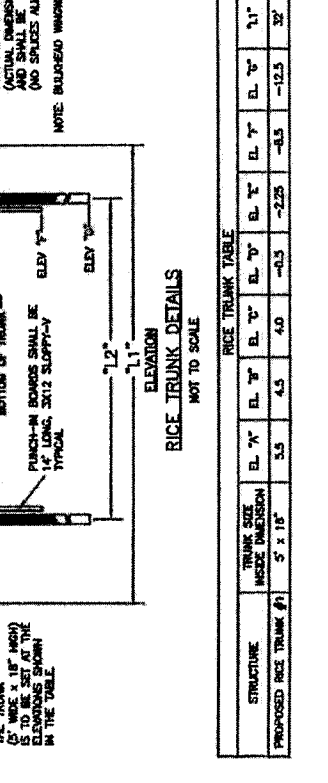
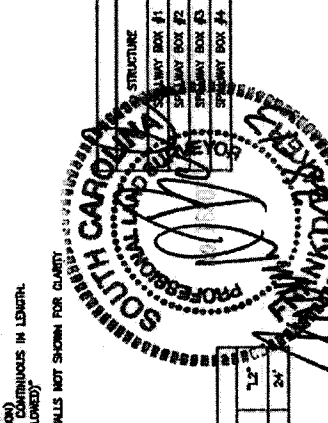
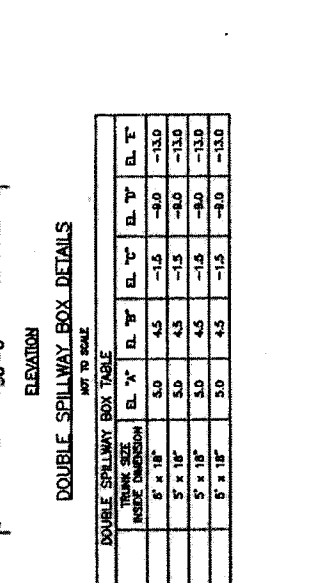
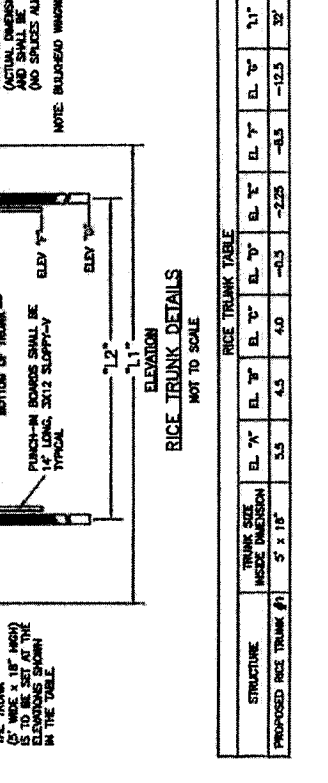
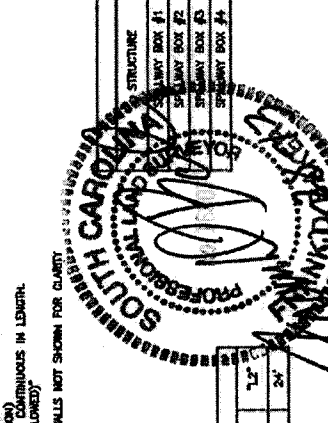
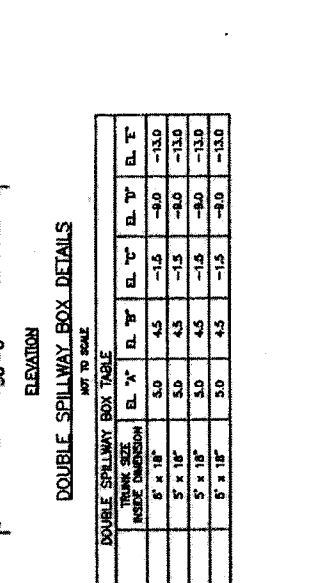
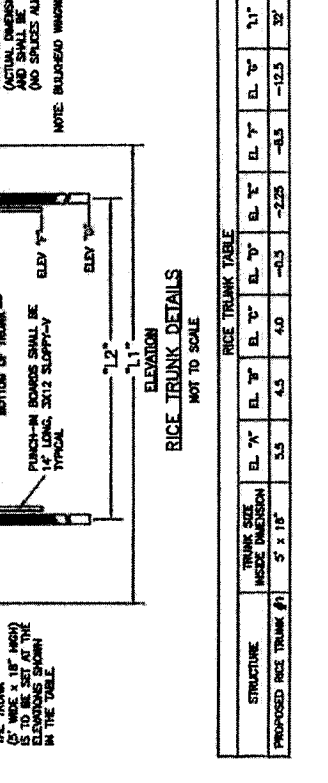
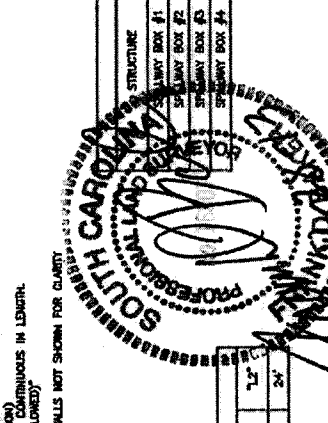
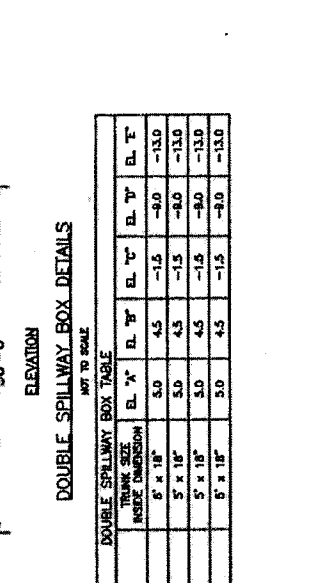
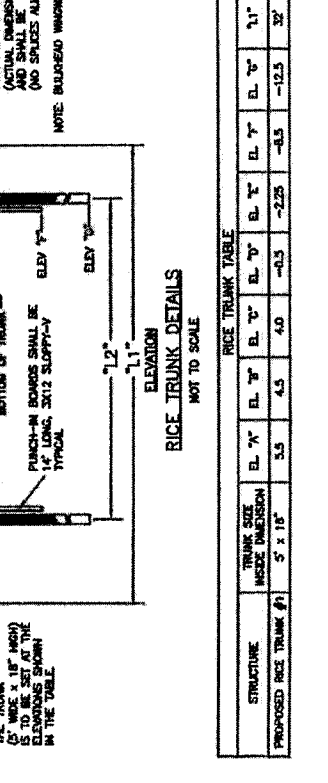
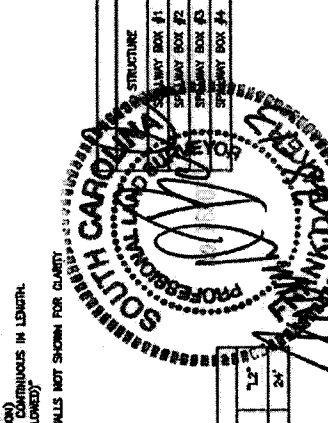
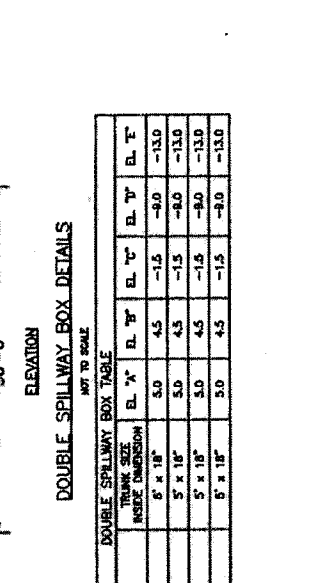
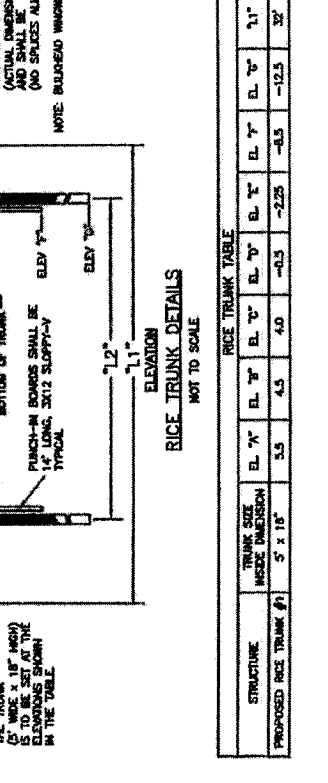
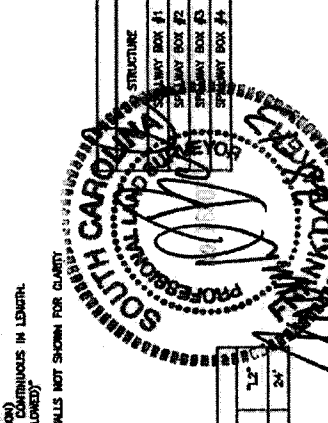
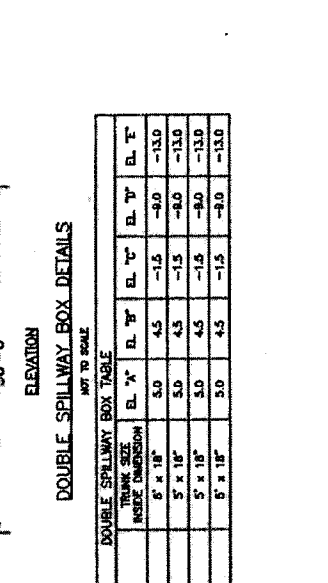
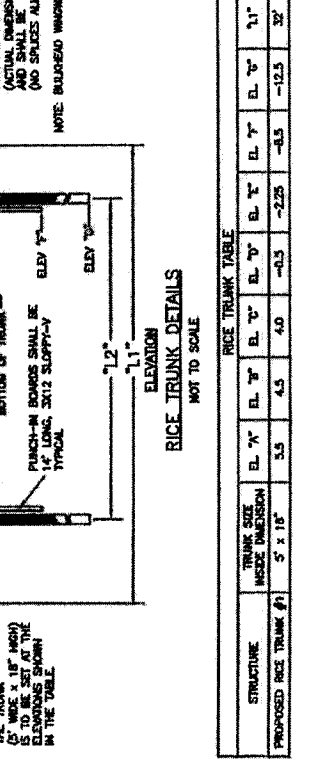
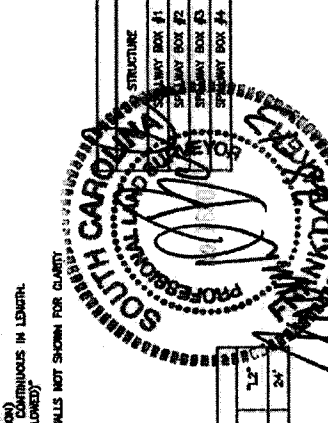
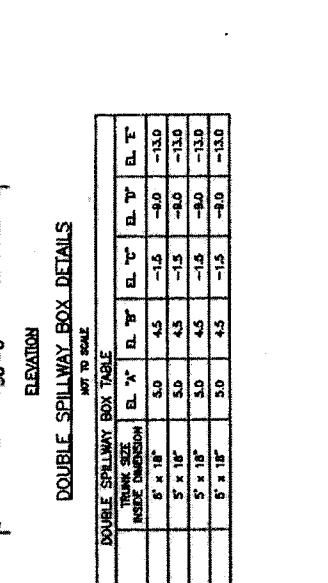
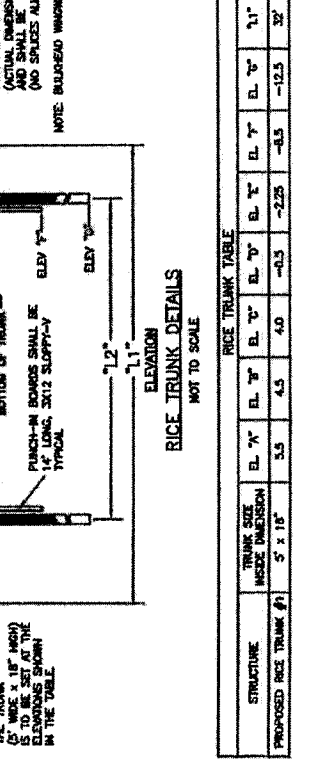
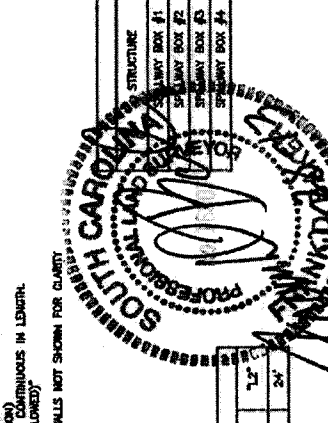
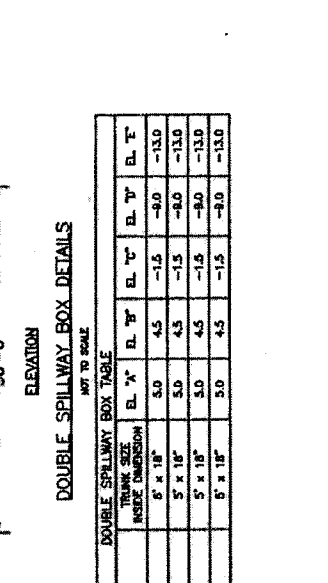
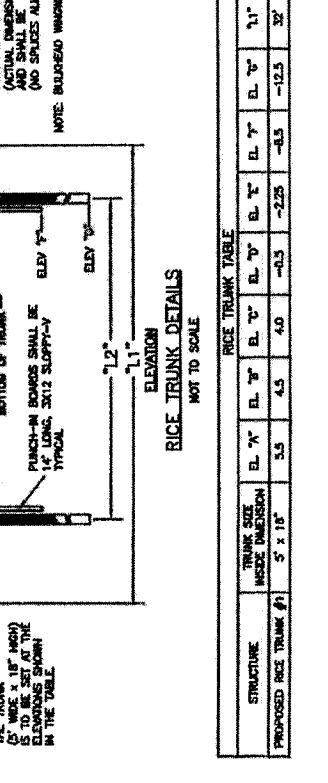
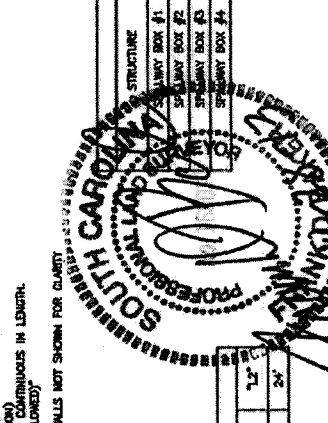
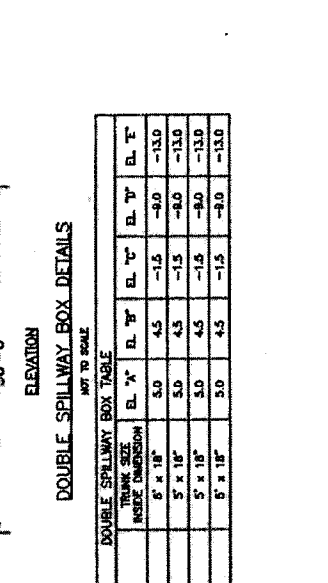
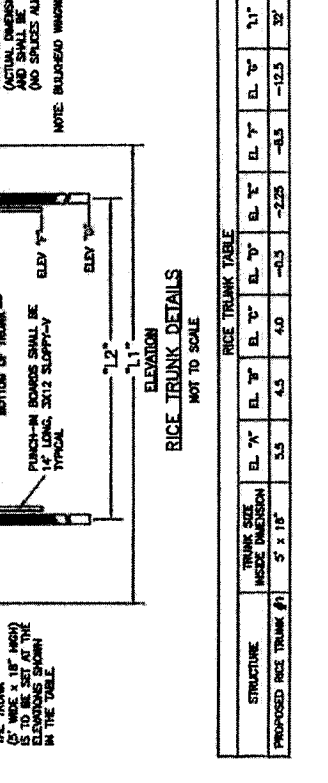
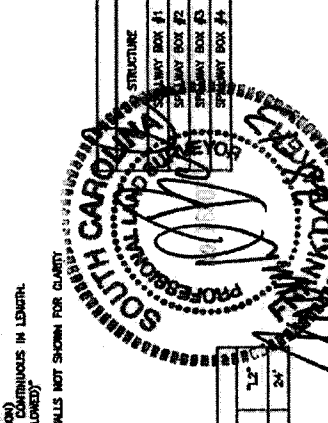
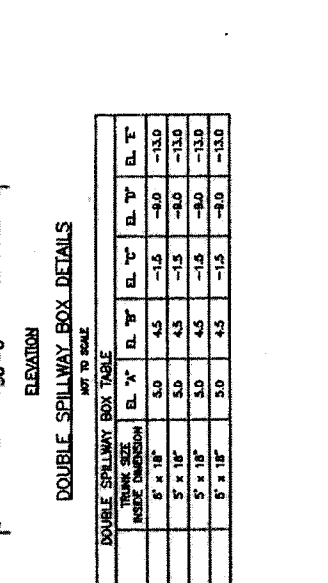
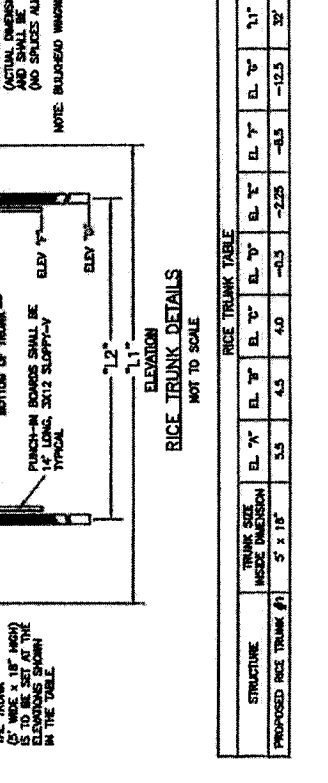
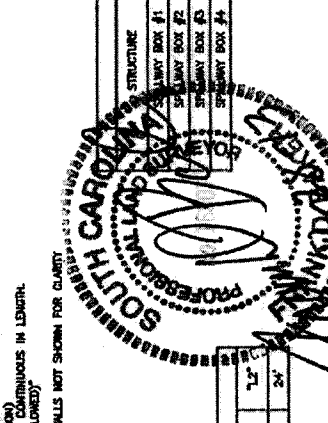
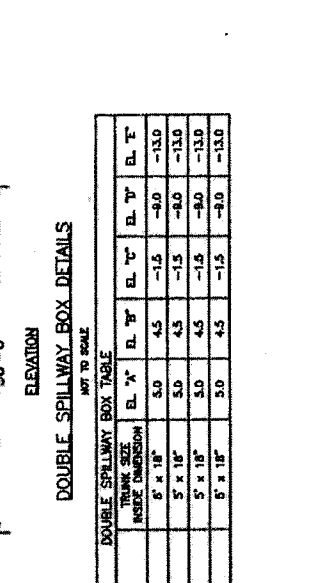
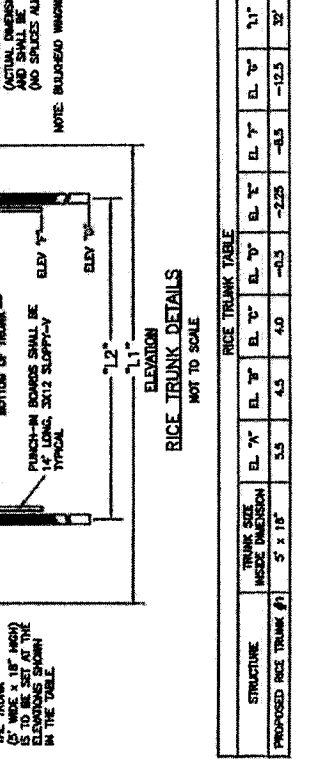
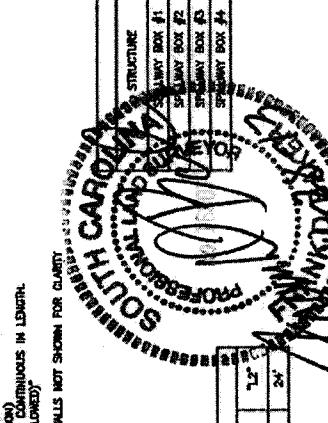
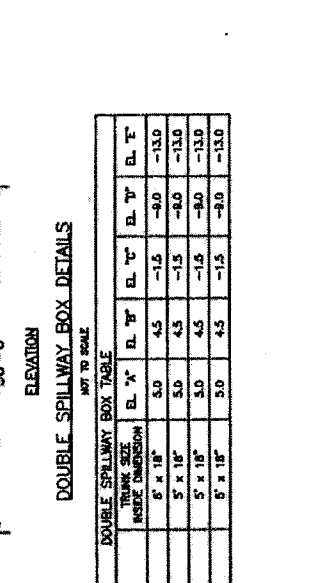
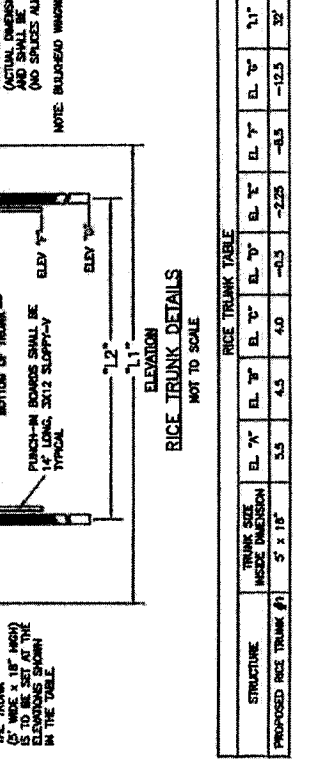
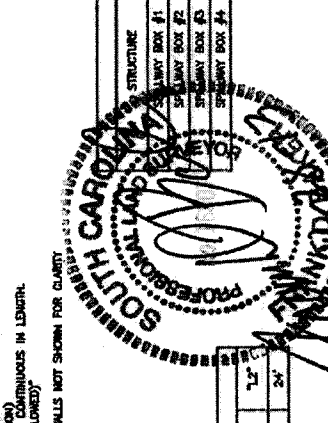
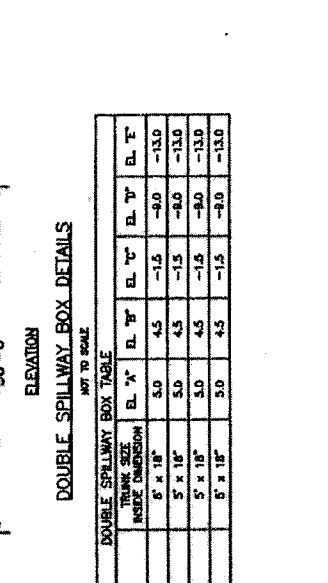
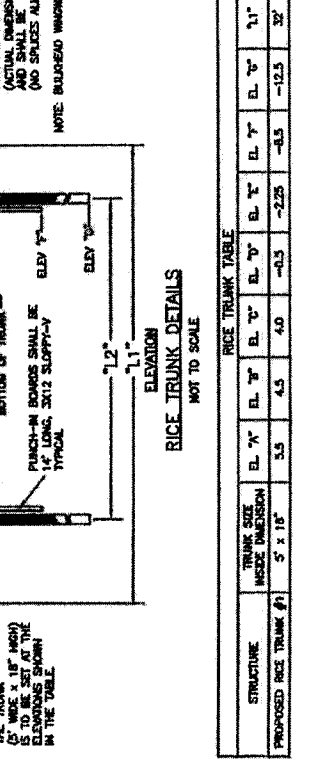
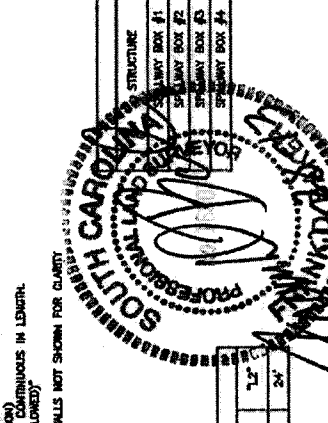
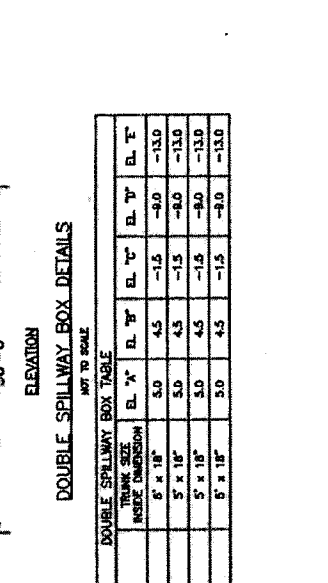
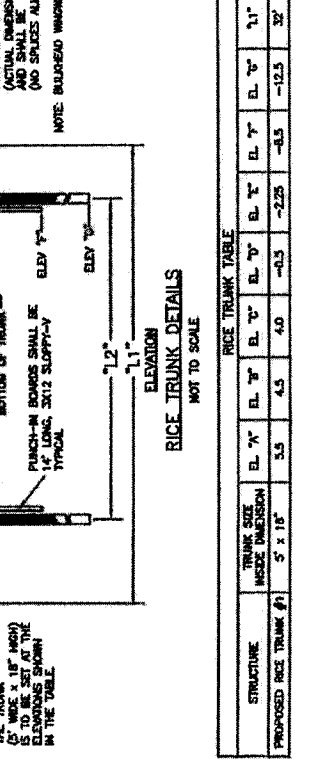
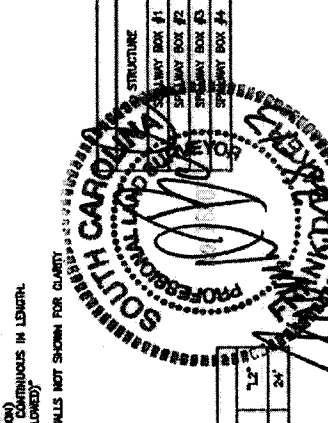
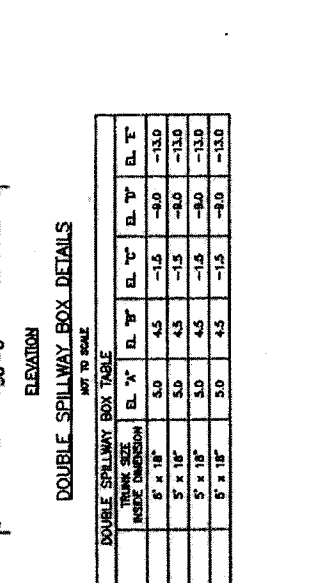
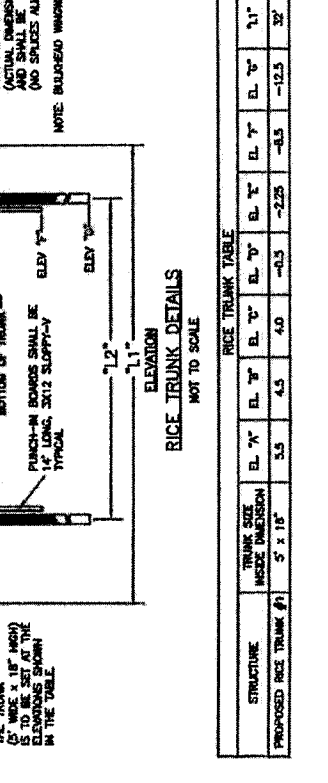
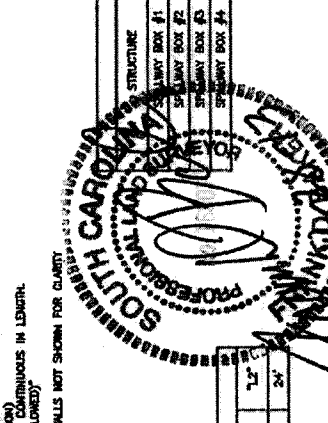
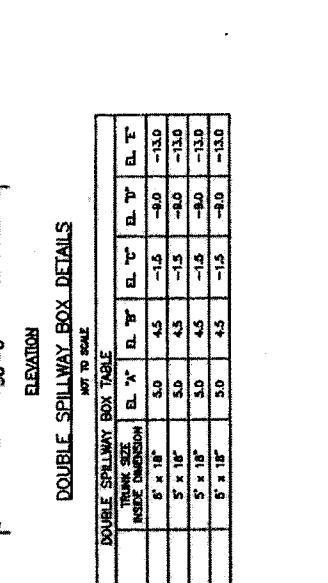
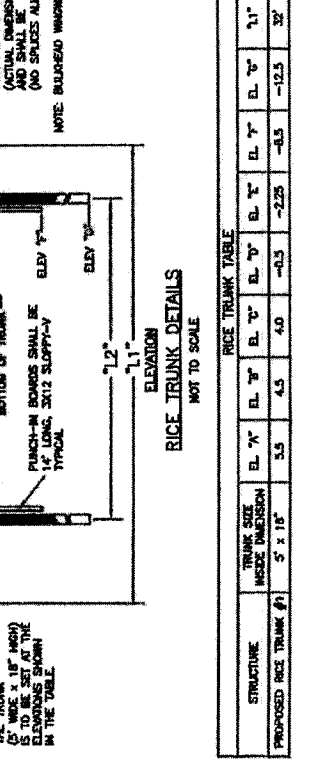
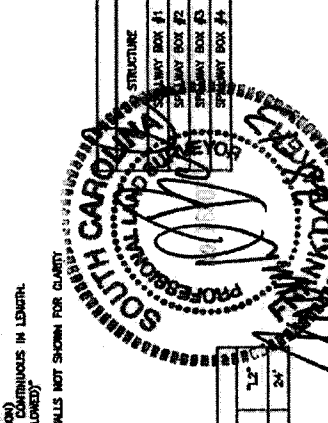
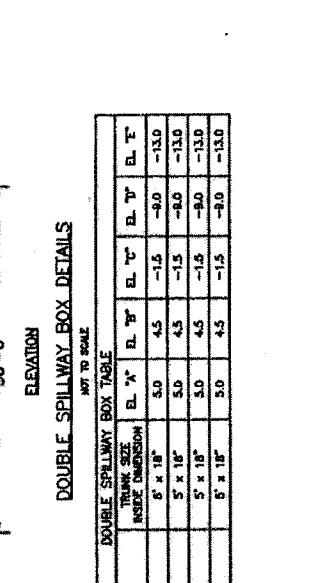
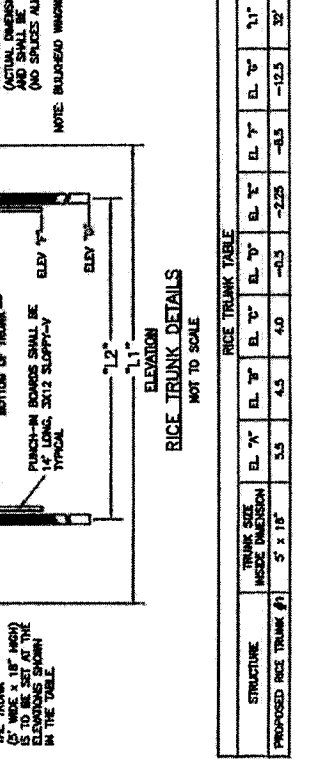
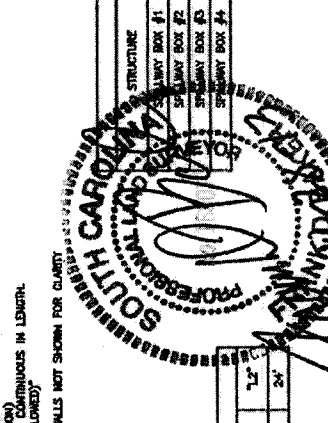
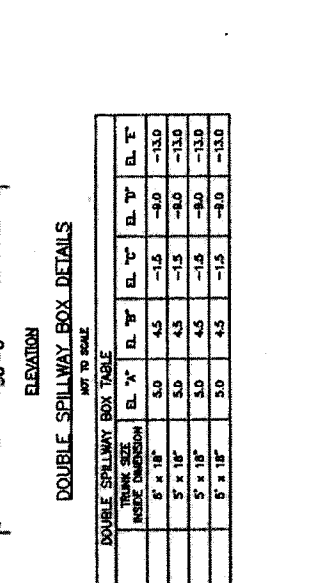
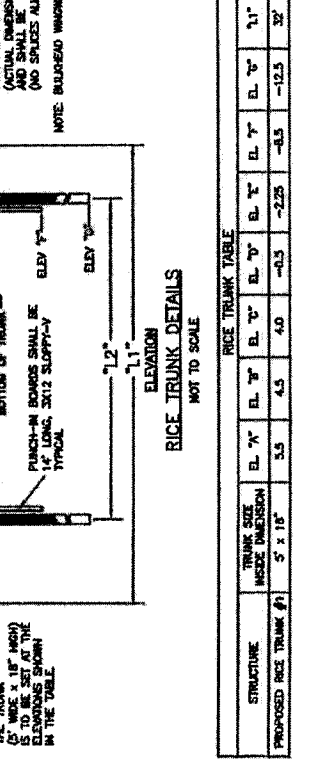
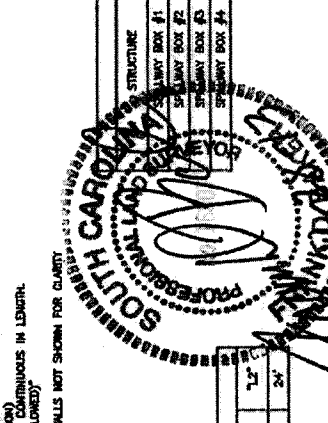
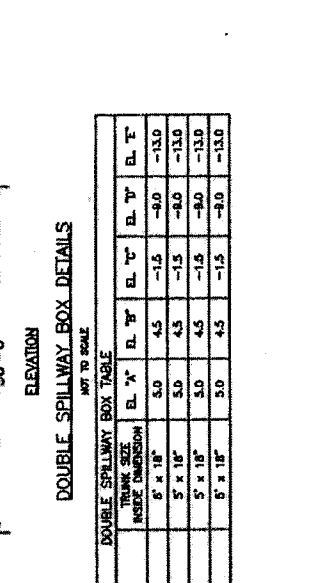
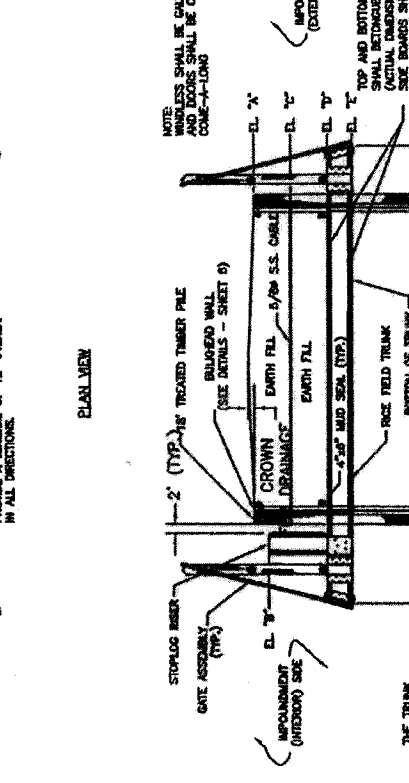
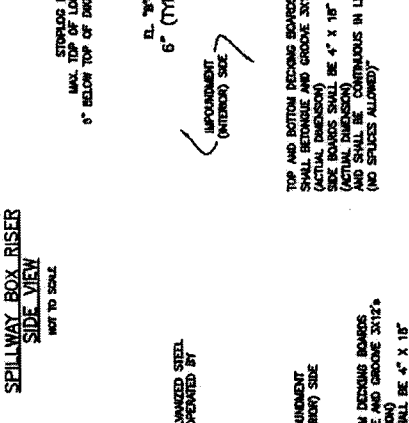
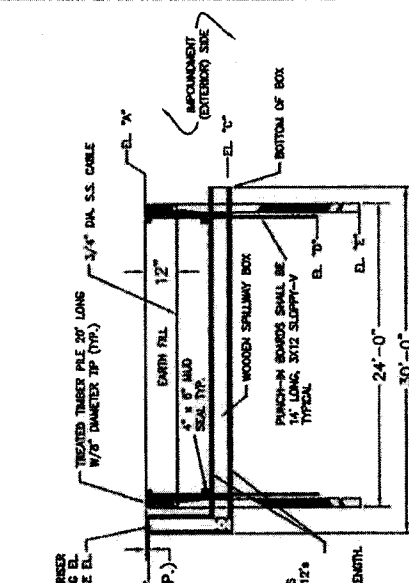
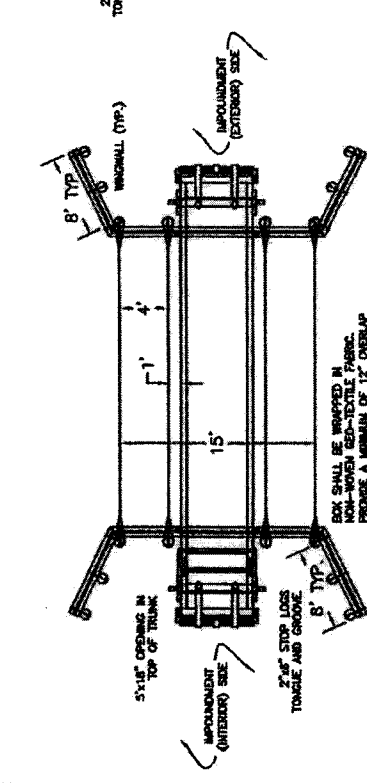
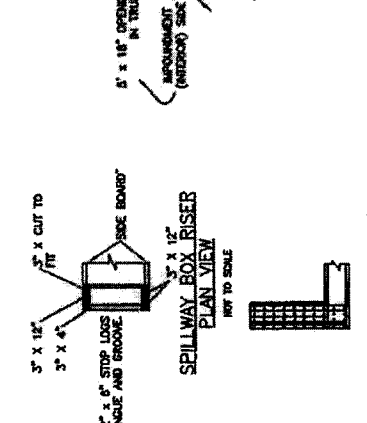
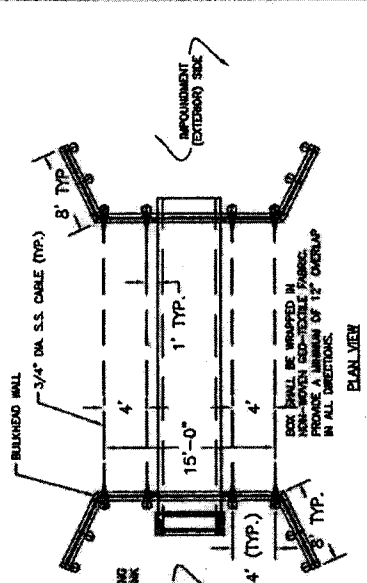


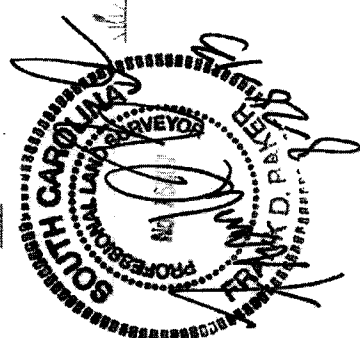
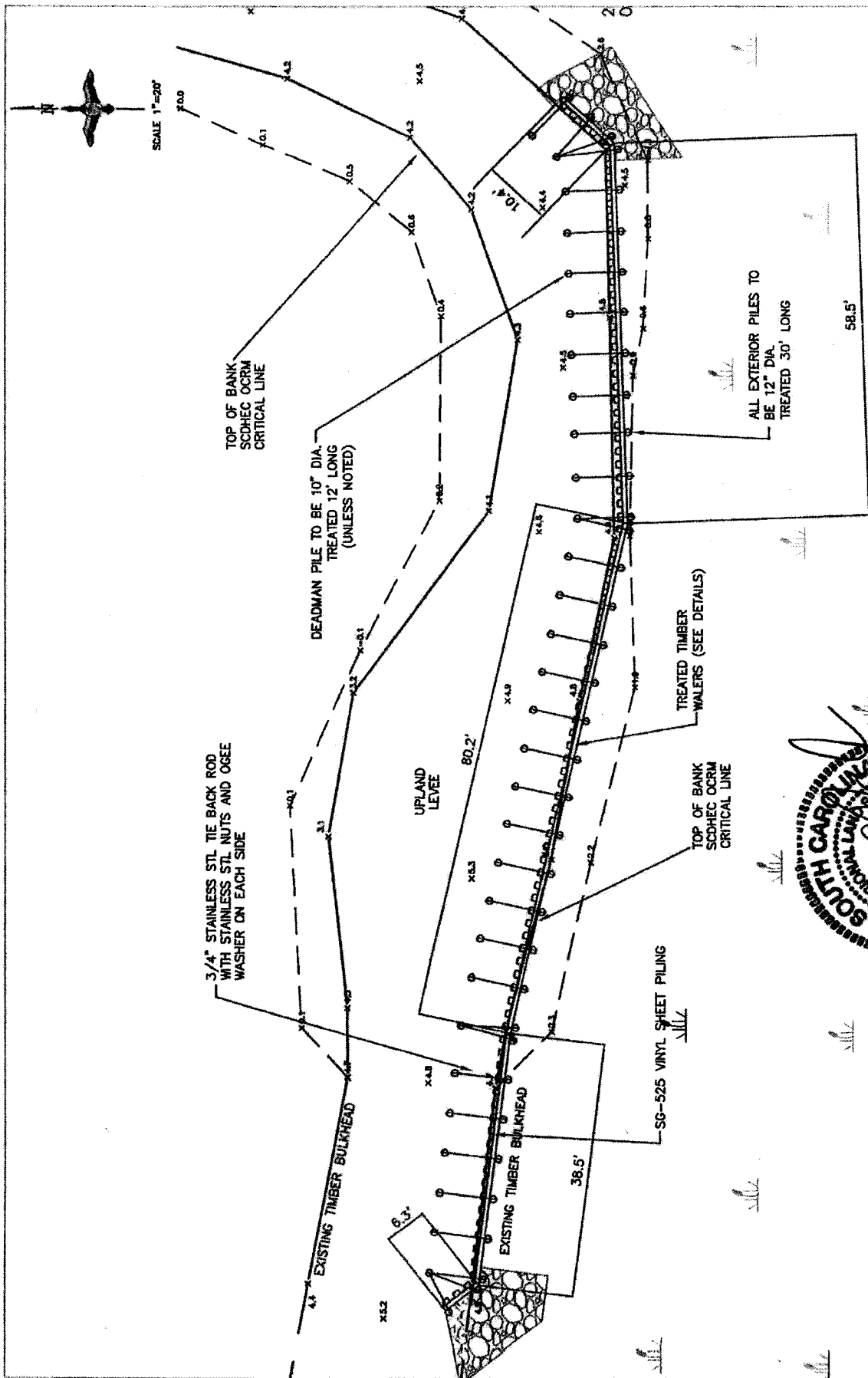
RICE TRUNK NO. 1 PLAN VIEW
SCALE 1"=10'

THIS DRAWING FOR PERMIT PURPOSES ONLY.
NOT TO BE USED FOR BIDDING OR CONSTRUCTION

APPLICATION NAME: SAC-2013-00837-26	DUCKS UNLIMITED INC.	PROJECT NO.: DU-SC-06-15
PROPOSED ACTIVITY: RECONSTRUCTION OF WATER CONTROL STRUCTURES	SOUTHERN REGIONAL OFFICE 1000 N. W. 10th Ave. Fort Lauderdale, FL 33317	PROJECT TITLE: PLAN VIEW RICE TRUNK # 1
DATE: 7-28-13	APPROVED BY: [Signature]	PROJECT LOCATION: GEORGETOWN, CO.
COUNTY: GEORGETOWN	APPROVED BY: [Signature]	PROJECT NUMBER: 3371211.169 / -781704.774
		DATE OF APPROVAL: JAMES RADER
		SHEET 10 OF 15

SCDHEC-OCRM CRITICAL LINE PLAT APPROVED
6-17-13 BY
CHRISTOPHER STOUT.





THIS DRAWING FOR PERMIT PURPOSES ONLY.
NOT TO BE USED FOR BIDDING OR CONSTRUCTION

APPLICATION NUMBER	SHC-2013-00037-200
PROPOSED PROJECT	ANNANDALE PLANTATION
PROPOSED ACTIVITY	PLANT VIEW VINYL BULKHEAD
DATE	7-26-13
COUNTY	GEORGETOWN
PROJECT NO.	DU-SC-06-15
PROJECT TITLE	ANNANDALE PLANTATION
PROJECT LOCATION	GEORGETOWN CO.
PROJECT ADDRESS	33°12'11.189" / -78°17'04.774"
PROJECT OWNER	JAMES RADER
PROJECT NO.	DU-SC-06-15
PROJECT TITLE	ANNANDALE PLANTATION
PROJECT LOCATION	GEORGETOWN CO.
PROJECT ADDRESS	33°12'11.189" / -78°17'04.774"
PROJECT OWNER	JAMES RADER

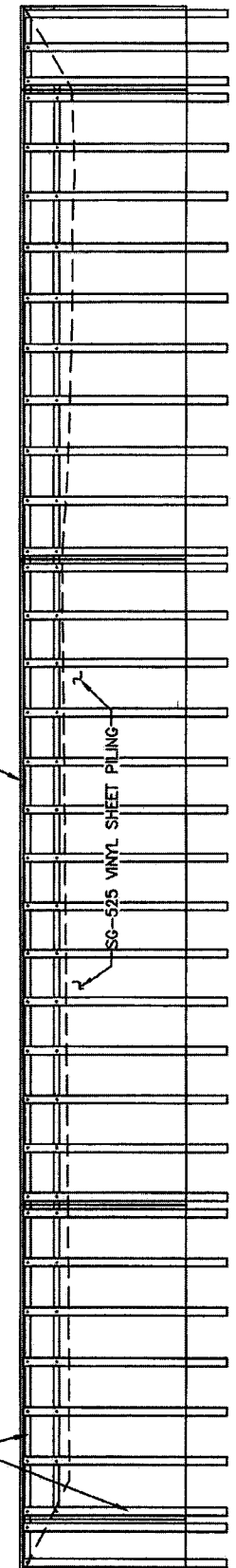
SCDHEC-OCRM CRITICAL LINE PLAT APPROVED
6-17-13 BY
CHRISTOPHER STOUT.



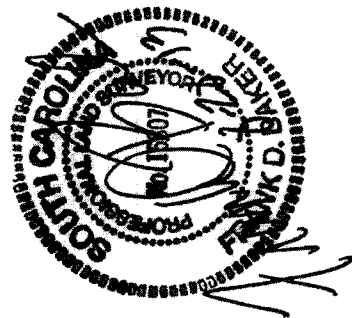
6" X 6" TREATED WALER

AW-1075 TOP CAP

5.0
 -1.92
 1.0
 -2.06
 -20.0
 -25.0

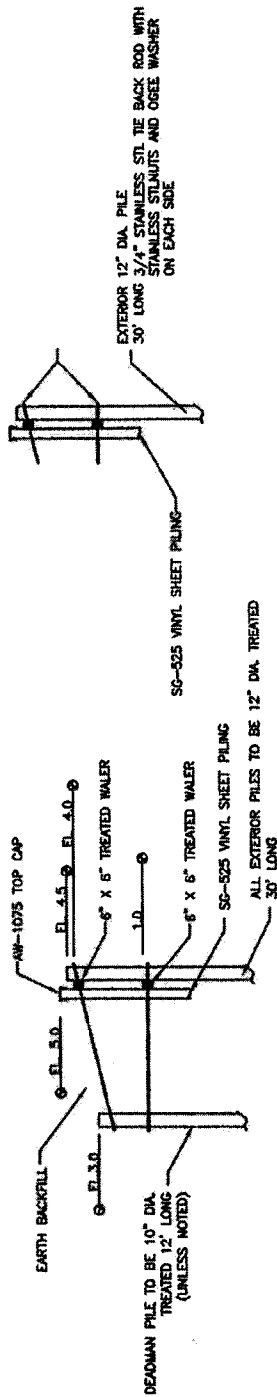


SG-525 VINYL SHEET PILING

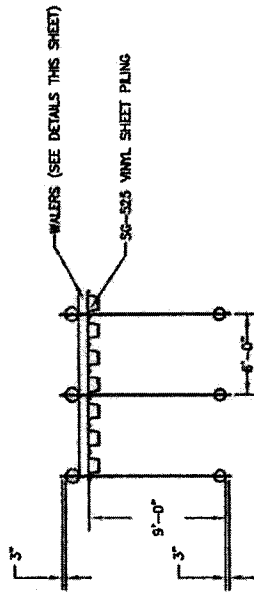


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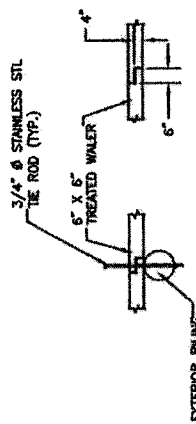
APPLICATION NUMBER SAC-2013-00837-296	PROJECT LOCATION DUCKS UNLIMITED INC.	PROJECT NO. DU-SC-06-15
PROPOSED ACTIVITY INSTALLATION OF COSS DKE AND PUMP CONTROL STRUCTURES	PROJECT TITLE ANNUALE PLANTATION BULGARD PROFILE	PROJECT LOCATION GEORGETOWN CO.
DATE 7-26-13	PROJECT LOCATION 133 Bushwong Park Georgetown, SC 29140	PROJECT NO. 3371211.188 / -791704.774
COUNTY GEORGETOWN	CERTIFICATE OF AUTHORIZATION No. 0073504	APPROVED JAMES RADER
	APPROVED MILLBROOK PLANTATION LP	SHEET 13 OF 15



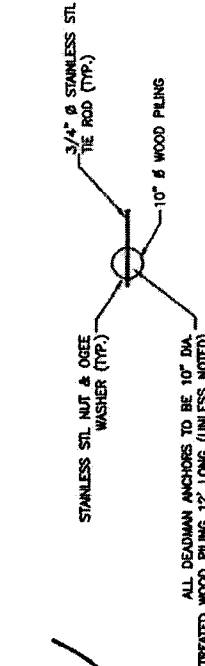
TYPICAL DETAILS OF 25' VINYL SHEET PILING
& CORNER TIE BACKS
NOT TO SCALE



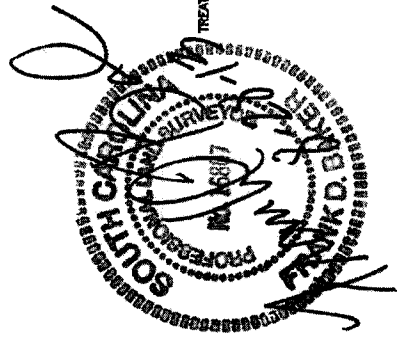
NOTE: TIE BACK POST VARY IN DISTANCE, NORMALLY 6'.
DEADMAN TIE BACK DETAILS FOR 25' VINYL SHEET PILING
& CORNER TIE BACKS
SCALE: 1" = 5'



NOTE: ALTERNATE UPPER/LOWER WALER SPLICES ON EXTERIOR PILES.
WALER SPLICE DETAILS
NOT TO SCALE



TYPICAL DEADMAN ANCHOR DETAILS
NOT TO SCALE



THIS DRAWING FOR PERMIT PURPOSES ONLY.
NOT TO BE USED FOR BIDDING OR CONSTRUCTION

APPLICATION NUMBER	SAC-2013-00837-26	DUCKS UNLIMITED INC.	PROJECT NO.	DU-SC-06-15
PROPOSED ACTIVITY	INSTALLATION OF SHIELDING WALL AND TIE BACKS FOR EXISTING STRUCTURES	SOUTHERN REGIONAL OFFICE	PROJECT TITLE	ANNANDALE PLANTATION
DATE	7-28-13	1435 BROADWAY, SUITE 200	PROJECT LOCATION	GEORGETOWN CO.
COUNTY	GEORGETOWN	Georgetown, SC 29204	PROJECT LOCATION	33°12'11.163" / -78°17'04.774"
		APPROVED BY	JAMES RADER	SHEET 14 OF 15

SUMMARY OF IMPACTS

CROSS-DIKE NO. 1
 FILL IN CRITICAL AREA : 4.61 AC. / 22,430 CYD
 EXCAVATION IN SCDHEC-OCRM CRITICAL AREA: 4.68 AC. / 28,473 CYD

CROSS-DIKE NO. 2
 FILL IN CRITICAL AREA : 1.71 AC. / 8,306 CYD
 EXCAVATION IN SCDHEC-OCRM CRITICAL AREA: 1.72 AC. / 10,396 CYD

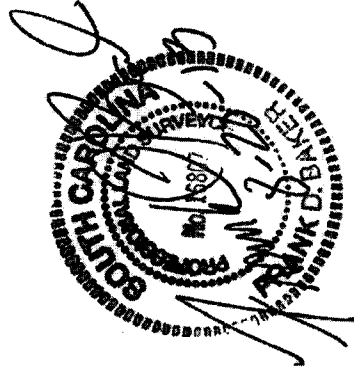
SPILLWAY BOX 1 THRU 3
 FILL IN CRITICAL AREA : 0.00
 EXCAVATION IN SCDHEC-OCRM CRITICAL AREA: 0.00

SPILLWAY BOX 4
 UPLAND FILL : 0.07 AC. / 22.62 CYD
 FILL IN CRITICAL AREA : 0.00
 EXCAVATION IN SCDHEC-OCRM CRITICAL AREA: 0.004 AC / 22.62 CYD 0.00

RICE TRUNK NO. 1
 UPLAND FILL : 0.02 AC. / 5.65 CYD
 FILL IN CRITICAL AREA : 0.00
 EXCAVATION IN SCDHEC-OCRM CRITICAL AREA: 0.023 AC / 74.97 CYD 0.00

VINYL BULKHEAD
 UPLAND FILL : 0.01 AC. / 74.1 CYD
 FILL IN CRITICAL AREA : 0.007 AC/ 24 CYD
 EXCAVATION IN SCDHEC-OCRM CRITICAL AREA: 0.00

PROJECT TOTAL
 UPLAND FILL : 0.10 / 102.37 CYD
 FILL IN CRITICAL AREA : 6.327 AC/ 30,760 CYD
 EXCAVATION IN SCDHEC-OCRM CRITICAL AREA: 6.427 AC / 38,966.59



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APPLICATION NUMBER SAC-2013-00637-20G	DUCKS UNLIMITED INC.	PROJECT NO. DU-SC-06-15
PROPOSED ACTIVITY INSTALLATION OF CROSS DIKE AND WATER CONTROL STRUCTURES	133 Washington Post Drive, Suite E Milledgeville, GA 30657	PROJECT TITLE ANNANDALE PLANTATION IMPACT SUMMARY
DATE 7-26-13	SOUTHGATE REGIONAL OFFICE	PROJECT LOCATION GEORGETOWN CO.
COUNTY GEORGETOWN	CERTIFIED BY JAMES RADER, No. 00364	COORDINATOR JAMES RADER
	MILLEDGEVILLE PLANTATION LP	SHEET 15 OF 15